

STL Sacramento 880 Riverside Parkway West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059 www.stl-inc.com

April 10, 2006

STL SACRAMENTO PROJECT NUMBER: G6C030290 PO/CONTRACT:

Paul Rosenfeld Soil Water Air Protection Enterprise 201 Wilshire Ave, Second Floor Santa Monica, CA 90401

Dear Dr. Rosenfeld,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on March 3, 2006. These samples are associated with your Florala project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4427.

Sincerely,

Nilo Ligi

Project Manager

TABLE OF CONTENTS

STL SACRAMENTO PROJECT NUMBER G6C030290

Case Narrative

STL Sacramento Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

BIOLOGIC, 8290, Dioxins/Furans, HRGC/HRM Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 Sample Data Sheets Method Blank Reports Laboratory QC Reports

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G6C030290

BIOLOGIC, 8290, Dioxins/Furans, HRGC/HRM

Sample(s): 1, 2, 3, 4, 5, 6, 7, 8

The method blank shows some hits for target analytes. All hits are well below the lower calibration limit. The chromatographic profile suggests that there may be a very small contamination from the LCS spike. All samples with hits for these analytes will be "B:" flagged.

Sample(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

It was noticed during the initial centrifugation that the serum did not fully separate from the red blood cell as the color of the samples were deep red.

Sample(s): 9, 10, 11, 12, 13, 14, 15

The ending standard, ST0404B from data file, 04AP068D5 had a response of -22.7% for 1,2,3,4,7,8-HxCDD between 20 and 25%. Per the method, an average response factor of the initial and ending standards for this analyte will be calculated (0.76) and applied to all associated samples with a positive result. Negative results are not impacted by this observation.

Sample(s): 9, 10, 14, 15

Field samples 9,10,14,15 from lot G6C030290 have several internal standards (IS's) with a low, failing recovery; these may be attributed to the matrix (blood serum). Rest of field samples, although passing, demonstrate a similar low recovery trend. No corrective action will be taken.

BIOLOGIC, 8290, Lipids, Percent

Sample(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

The %Lipid determination in blood was performed gravimetrically as hexane extractable material.

There were no other anomalies associated with this project.





STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona sous es	AZOÓIG	Pennsylvania**	2568-1272
Arkansas	04-067-0	South Carolina	87014002
California es la	ANTER OHIO CATALITY	Jexas 3. at	###=TX 270 2004A
Colorado	NANA	Utah*	QUAN1
Confictions	PHE 0691	Part Virginia	理解 编 00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	19930C,334
Hawaii	NA NA	Wisconsin	998204680
Louisiana 🞉 👢	### 01944 : 15 124	NEESC	Market MARL STREET
Michigan	9947	USACE	NA
Nevaga 18 3 3 4	PART OF CAAAA PARTIES OF	TE FUS DAN Foreign Plant :	如此是6月87年82605年,明初周月
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	洲北北 11666:		

^{*}NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Filed 04/24/2006

Sample Summary G6C030290

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
HOLLV	1	JAMES HUGHES	3/2/2006 08:45 AM	3/3/2006 08:55 AM
HOLL2	2	KANDY CREECH	3/2/2006 09:00 AM	I 3/3/2006 08:55 AM
HOLL3	3	LILLIE EDWARDS	3/2/2006 09:15 AM	I 3/3/2006 08:55 AM
HOLL7	4	SARA THOMPSON	3/2/2006 09:30 AM	I 3/3/2006 08:55 AM
HOLME	5	MARVIN WILLIFORD	3/2/2006 09:50 AM	I 3/3/2006 08:55 AM
HOLMG	6	YANCEY BROOKS	3/2/2006 10:00 AM	I 3/3/2006 08:55 AM
HOLMJ	7	LORENE THOMPSON	3/2/2006 10:20 AM	I 3/3/2006 08:55 AM
HOLMM	8	GLENDA FOUNTAIN	3/2/2006 10:40 AM	13/3/2006 08:55 AM
HOLMN	9	JAMES CARAWAY	3/2/2006 11:20 AM	I 3/3/2006 08:55 AM
HOLMQ	10	TERESA CASSADY	3/2/2006 11:35 AM	13/3/2006 08:55 AM
HOLMT	11	SHERRI DAVIS	3/2/2006 12:05 PM	3/3/2006 08:55 AM
HOLMX	12	DORTHY DEVAUGHN	3/2/2006 01:20 PM	3/3/2006 08:55 AM
H0LM4	13	JANICE MADDEN	3/2/2006 01:35 PM	3/3/2006 08:55 AM
HOLNA	14	JAMES ALLEN	3/2/2006 02:00 PM	3/3/2006 08:55 AM
HOLNF	15	JAMES D ALLEN	3/2/2006 02:15 PM	3/3/2006 08:55 AM

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.

Case 2:06-cv-00084-LES-CSC

- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

acramento 880 Riverside Parkway West Sacramento CA 95605

Chain of Custody Record



Phone 916-373 5600 Severn Trent Laboratories, Inc. Fax 916 372 1059 COC No: Client Contact Project Manager: Paul Rosenfeld Ph.D. Site Contact: Paul Rosenfeld Ph.D. Date: 3-2-06 COCs SWAPE Tel/Fax: 310 795-2335 Lab Contact: Nilo Ligi Carrier: Fed EX Job No. 201 Wilshire Blvd **Analysis Turnaround Time** Calendar (C) or Work Days (W) Stondard Santa Monica CA 90401 310 795-2335 Phone TAT if different from Below 5 Furan SDG No. 310 393 3898 FAX 2 weeks Project Name: FLORALA 1 week Site: FLORALA ALABAMA 2 days PO# 1 day Dioxin Sample Sample Sample Sample Specific Notes: Date Time Type Matrix Cont. Sample Identification 6845 - James Hughes İΟ 3-2-06 Blood 3-2-06 0900 Kandy Creech Blood 10 illie Edwards 3-2-000915 Blood Sara Thompson 3-2-060930 10 Blood -2322006Marrin Williford 3-2-06 0950 Blood 10 - Yancey Brooks 3-2-06 1000 Blood orene Thomason 3-2-06/020 3-2-06 1040 - Glenda Fountain 3-2-04 1120 James Caraway Blood 3-2-06/135 Blood 11- Sherri Davis Blood Dorther DeVaugha 3-2-06/320 4 Blood Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Archive For Skin Irritant Poison B Disposal By Lab Return To Client 2 Months Flammable Unknown Special Instructions/QC Requirements & Comments: limit possible. Please détermine To blood lipid. Lowest detection Date/Time: Date/Time: Relinquished by: Company: Date/Time: Received by: Relinquished by: Company: Date/Time: Relinquished by: Date/Time: Received by: Company: Company:

STL Sacramento (916) 373 - 5600

G6C030290

cramento 880 K. Aside Parkway West Sacramento CA 95605

Phone 916-373 5600

Chain of Custody Record



Fax 916 372 1059																								rent l	abora	torie:	s, in	<u>e.</u>
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STL

LOT RECEIPT CHECKLIST **STL Sacramento**

CLIENT SWA	74	PMLOG # _	3750	<u> </u>
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CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☐	Í N/A		
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SHIPPPING CONTAINER(S)] N/A	-	
TEMPERTURE RECORD (IN	I°C) IR 1 3 □ L	OTHER		
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SAMPLE TEMPERATURE	Average: 5 Corre	noted Average: 3		
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LABELED BY	***************************************			
LABELS CHECKED BY PEER REVIEW	NA			
SHORT HOLD TEST NOTIF	ICATION S	AMPLE RECEIVING		
	-	VETCHEM N/A		
	V	OA-ENCORES N/A		
☐ METALS NOTIFIED OF	FILTER/PRESERVE VIA VERBAL & I	EMAIL N/A		
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Filed 04/24/2006

BIOLOGIC, 8290, Dioxins/Furans, HRGC/HRM

Client Sample ID: JAMES HUGHES

10.0		Cheff Sample ID	. Office House		
Lot-Sample #: Date Sampled:	G6C030290 - 001 03/02/06	Work Order #: Date Received:	H0LLV1AA 03/03/06	Matrix: Instrument:	BIOLOGICAL 8D5
Prep Date:	03/28/06	Analysis Date:	03/29/06	Units:	pg/g
Prep Batch #:	6087532	Dilution Factor:	1	% Moisture:	

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		0.079	1.000	0
Total TCDD	ND		0.079		0
1,2,3,7,8-PeCDD	ND		0.15	0.500	0
Total PeCDD	ND		0.15		0
1,2,3,4,7,8-HxCDD	0.12	J		0.100	0.0120
1,2,3,6,7,8-HxCDD	0.39	J.		0.100	0.0390
1,2,3,7,8,9-HxCDD	0.18	J		0.100	0.0180
Total HxCDD	0.69				
1,2,3,4,6,7,8-HpCDD	0.46	JB		0.010	0.0046
Total HpCDD	0.46				
OCDD	1.8	JB		0.001	0.0018
2,3,7,8-TCDF	ND		0.060	0.100	0
Total TCDF	ND		0.060		0
1,2,3,7,8-PeCDF	ND		0.092	0.050	0
2,3,4,7,8-PeCDF	0.12	J		0.500	0.0600
Total PeCDF	0.12				
1,2,3,4,7,8-HxCDF	ND		0.19	0.100	0
1,2,3,6,7,8-HxCDF	0.16	J		0.100	0.0160
2,3,4,6,7,8-HxCDF	0.14	J		0.100	0.0140
1,2,3,7,8,9-HxCDF	0.22	JB		0.100	0.0220
Total HxCDF	0.53				
1,2,3,4,6,7,8-HpCDF	0.23	JВ		0.010	0.0023
1,2,3,4,7,8,9-HpCDF	0.17	J		0.010	0.0017
Total HpCDF	0.40				
OCDF	ND		0.22	0.001	0
Total TEQ Concentration					0.1914

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	55	40 - 135
13C-1,2,3,7,8-PeCDD	68	40 - 135
13C-1,2,3,6,7,8-HxCDD	63	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	52	40 - 135
13C-OCDD	52	40 - 135
13C-2,3,7,8-TCDF	58	40 - 135
13C-1,2,3,7,8-PeCDF	59	40 - 135
13C-1,2,3,4,7,8-HxCDF	49	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	51	40 - 135

Notes:

В

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than the reporting limit.

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/3-89/016

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID:	G6C030290-1	%Lipid:	0.171%
Client Sample ID:	JAMES HUGHES		

Olient Gampie is:	OMINICOTIC	JOI ILO				
		Result		EDL	TEF	TEQ
Analyte		(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
2,3,7,8-TCDF		ND	•	35.1	0.1	
Total TCDF		ND		35.1		
2,3,7,8-TCDD		ND		46.2	1	
Total TCDD		ND		46.2		
1,2,3,7,8-PeCDF		ND		53.8	0.05	
2,3,4,7,8-PeCDF		67.8	J		0.5	33.9
Total PeCDF		67.8				
1,2,3,7,8-PeCDD		ND		87.1	0.5	
Total PeCDD		ND		87.1		
1,2,3,4,7,8-HxCDF		ND		112	0.1	
1,2,3,6,7,8-HxCDF		94.2	J		0.1	9.42
2,3,4,6,7,8-HxCDF		81.9	J		0.1	8.19
1,2,3,7,8,9-HxCDF		132	JB		0.1	13.2
Total HxCDF		308				
1,2,3,4,7,8-HxCDD		67.8	J		0.1	6.78
1,2,3,6,7,8-HxCDD		230	J		0.1	23.0
1,2,3,7,8,9-HxCDD		105	J		0.1	10.5
Total HxCDD		403				
1,2,3,4,6,7,8-HpCDF		135	JB		0.01	1.35
1,2,3,4,7,8,9-HpCDF		99.4	J		0.01	0.99
Total HpCDF		235				
1,2,3,4,6,7,8-HpCDD		270	JB		0.01	2.70
Total HpCDD		270				
OCDF		ND		130	0.001	
OCDD		1038	JB		0.001	1.04

Total TEQ Concentration (pg/g lipid): 111.1

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Client Sample ID: KANDY CREECH

	Cheff Sumple 12	. IMAIN OILL		
G6C030290 - 002	Work Order #:	H0LL21AA	Matrix:	BIOLOGICAL
03/02/06	Date Received:	03/03/06	Instrument:	8D5
03/28/06	Analysis Date:	03/29/06	Units:	pg/g
6087532	Dilution Factor:	1	% Moisture:	
	03/02/06 03/28/06	G6C030290 - 002 Work Order #: 03/02/06 Date Received: 03/28/06 Analysis Date:	03/02/06 Date Received: 03/03/06 03/28/06 Analysis Date: 03/29/06	G6C030290 - 002 Work Order #: H0LL21AA Matrix: 03/02/06 Date Received: 03/03/06 Instrument: 03/28/06 Analysis Date: 03/29/06 Units:

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND	•	0.063	1.000	0
Total TCDD	ND		0.063		0
1,2,3,7,8-PeCDD	ND		0.13	0.500	0
Total PeCDD	ND		0.13		0
1,2,3,4,7,8-HxCDD	ND		0.074	0.100	0
1,2,3,6,7,8-HxCDD	0.14	J		0.100	0.0140
1,2,3,7,8,9-HxCDD	ND		0.060	0.100	0
Total HxCDD	0.14				
1,2,3,4,6,7,8-HpCDD	0.21	JВ		0.010	0.0021
Total HpCDD	0.21				
OCDD	0.92	JB		0.001	0.0009
2,3,7,8-TCDF	ND		0.050	0.100	0
Total TCDF	ND		0.050		0
1,2,3,7,8-PeCDF	ND		0.068	0.050	0
2,3,4,7,8-PeCDF	ND		0.067	0.500	0
Total PeCDF	ND		0.069		0
1,2,3,4,7,8-HxCDF	ND		0.089	0.100	0
1,2,3,6,7,8-HxCDF	ND		0.060	0.100	0
2,3,4,6,7,8-HxCDF	ND		0.055	0.100	0
1,2,3,7,8,9-HxCDF	ND		0.062	0.100	0
Total HxCDF	ND		0.089		0
1,2,3,4,6,7,8-HpCDF	0.090	JВ		0.010	0.0009
1,2,3,4,7,8,9-HpCDF	0.071	J		0.010	0.0007
Total HpCDF	0.16				
OCDF	ND		0.13	0.001	0

Total TEQ Concentration 0.0186
PERCENT RECOVERY

INTERNAL STANDARDS	RECOVERY	LIMITS		
13C-2,3,7,8-TCDD	69	40 - 135		
13C-1,2,3,7,8-PeCDD	81	40 - 135		
13C-1,2,3,6,7,8-HxCDD	66	40 - 135		
13C-1,2,3,4,6,7,8-HpCDD	58	40 - 135		
13C-OCDD	56	40 - 135		
13C-2,3,7,8-TCDF	72	40 - 135		
13C-1,2,3,7,8-PeCDF	68	40 - 135		
13C-1,2,3,4,7,8-HxCDF	56	40 - 135		
13C-1,2,3,4,6,7,8-HpCDF	58	40 ~ 135		

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; PPA/6257-89/016

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: G6C030290-2 Client Sample ID: KANDY CREECH %Lipid: 0.117%

	Result		EDL	TEF	TEQ
Analyte	(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
2,3,7,8-TCDF	ND		42.7	0.1	
Total TCDF	ND		42.7		
2,3,7,8-TCDD	ND		53.8	1	
Total TCDD	ND		53.8		
1,2,3,7,8-PeCDF	ND		58.1	0.05	
2,3,4,7,8-PeCDF	ND		57.3	0.5	
Total PeCDF	ND		59.0		
1,2,3,7,8-PeCDD	ND		111	0.5	
Total PeCDD	ND		111		
1,2,3,4,7,8-HxCDF	ND		76.1	0.1	
1,2,3,6,7,8-HxCDF	ND		51.3	0.1	
2,3,4,6,7,8-HxCDF	ND		47.0	0.1	
1,2,3,7,8,9-HxCDF	ND		53.0	0.1	
Total HxCDF	ND		76.1		
1,2,3,4,7,8-HxCDD	ND		63.2	0.1	
1,2,3,6,7,8-HxCDD	123	J		0.1	12.31
1,2,3,7,8,9-HxCDD	ND		51.3	0.1	
Total HxCDD	123				
1,2,3,4,6,7,8-HpCDF	76.9	JΒ		0.01	0.769
1,2,3,4,7,8,9-HpCDF	60.7	J		0.01	0.607
Total HpCDF	138				
1,2,3,4,6,7,8-HpCDD	183	JB		0.01	1.83
Total HpCDD	183				
OCDF	ND		109	0.001	
OCDD	782	JB		0.001	0.782

Total TEQ Concentration (pg/g lipid):

16.3

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Client Sample ID: LILLIE EDWARDS

. *		Ontone Sample 22 .			
Lot-Sample #: Date Sampled:	G6C030290 - 003 03/02/06	Work Order #: Date Received:	H0LL31AA 03/03/06	Matrix: Instrument:	BIOLOGICAL 8D5
Prep Date:	03/28/06	Analysis Date:	03/29/06	Units:	pg/g
Prep Batch #:	6087532	Dilution Factor:	1	% Moisture:	
				cn m	20

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		0.067	1.000	0
Total TCDD	ND		0.067		0
1,2,3,7,8-PeCDD	ND		0.16	0.500	0
Total PeCDD	ND		0.16		0
1,2,3,4,7,8-HxCDD	ND		0.088	0.100	0
1,2,3,6,7,8-HxCDD	ND		0.14	0.100	0
1,2,3,7,8,9-HxCDD	ND		0.072	0.100	0
Total HxCDD	ND		0.14		0
1,2,3,4,6,7,8-HpCDD	0.33	JВ		0.010	0.0033
Total HpCDD	0.33				
OCDD	1.8	JВ		0.001	0.0018
2,3,7,8-TCDF	ND		0.053	0.100	0
Total TCDF	ND		0.053		0
1,2,3,7,8-PeCDF	ND		0.066	0.050	0
2,3,4,7,8-PeCDF	ND		0.066	0.500	0
Total PeCDF	ND		0.066		0
1,2,3,4,7,8-HxCDF	0.14	JВ		0.100	0.0140
1,2,3,6,7,8-HxCDF	0.072	\mathbf{J}		0.100	0.0072
2,3,4,6,7,8-HxCDF	ND		0.060	0.100	0
1,2,3,7,8,9-HxCDF	ND		0.068	0.100	0
Total HxCDF	0.21				
1,2,3,4,6,7,8-HpCDF	ND		0.093	0.010	0
1,2,3,4,7,8,9-HpCDF	ND		0.079	0.010	0
Total HpCDF	ND		0.093		0
OCDF	ND		0.18	0.001	0
Total TEQ Concentration					0.0263

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS		
13C-2,3,7,8-TCDD	54	40 - 135		
13C-1,2,3,7,8-PeCDD	62	40 - 135		
13C-1,2,3,6,7,8-HxCDD	55	40 - 135		
13C-1,2,3,4,6,7,8-HpCDD	49	40 - 135		
13C-OCDD	50	40 - 135		
13C-2,3,7,8-TCDF	57	40 - 135		
13C-1,2,3,7,8-PeCDF	58	40 - 135		
13C-1,2,3,4,7,8-HxCDF	47	40 - 135		
13C-1,2,3,4,6,7,8-HpCDF	48	40 - 135		

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; PPA/625/2-89/016

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than the reporting limit.

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID:	G6C030290-3	%Lipid:	0.100%		
Client Sample ID:	LILLIE EDWARDS				
	Result		EDL	TEF	TEQ
Amalida		Eloa		Factor	(pg/g lipid)
Analyte	(pg/g lipid)	Flag	(pg/g lipid)		(hava libra)
2,3,7,8-TCDF	ND		53.0	0.1	
Total TCDF	ND		53.0		
2,3,7,8-TCDD	ND		67.0	1	
Total TCDD	ND		67.0		
1,2,3,7,8-PeCDF	ND		66.0	0.05	
2,3,4,7,8-PeCDF	ND		66.0	0.5	
Total PeCDF	ND		66.0		
1,2,3,7,8-PeCDD	ND		163	0.5	
Total PeCDD	ND		163		
1,2,3,4,7,8-HxCDF	141	JΒ		0.1	14.10
1,2,3,6,7,8-HxCDF	72.0	J		0.1	7.20
2,3,4,6,7,8-HxCDF	ND		60.0	0.1	
1,2,3,7,8,9-HxCDF	ND		68.0	0.1	
Total HxCDF	213				
1,2,3,4,7,8-HxCDD	ND		88.0	0.1	
1,2,3,6,7,8-HxCDD	ND		136	0.1	
1,2,3,7,8,9-HxCDD	ND		72.0	0.1	
Total HxCDD	ND		136		
1,2,3,4,6,7,8-HpCDF	ND		93.0	0.01	
1,2,3,4,7,8,9-HpCDF	ND		79.0	0.01	•
Total HpCDF	ND		93.0		
1,2,3,4,6,7,8-HpCDD	329	JВ		0.01	3.29
Total HpCDD	329				

Total TEQ Concentration (pg/g lipid): 26.4

0.001

0.001

1.80

183

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

JΒ

J: Estimated result. Result is less than the reporting limit.

ND

1803

OCDF

OCDD

Page 15 of 73

G6C030290 - 004

Lot-Sample # ...:

Work Order #...:

Matrix...:

BIOLOGICAL

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: SARA THOMPSON

H0LL71AA

Date Sampled: Prep Date: Prep Batch #:	03/02/06 03/28/06 6087532		Date Received Analysis Date Dilution Factor	03/29/06	Units	ument: 8D5 s: pg/g loisture:
PARAMETER		RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD		ND		0.050	1.000	0
Total TCDD		ND		0.050		0
1,2,3,7,8-PeCDD		ND		0.12	0.500	0
Total PeCDD		ND		0.12		0
1,2,3,4,7,8-HxCD	D	ND		0.090	0.100	0
1,2,3,6,7,8-HxCD	D	ND	•	0.14	0.100	0
1,2,3,7,8,9-HxCD	D	ND		0.073	0.100	0
Total HxCDD		ND		0.14		0
1,2,3,4,6,7,8-HpC	CDD	0.14	JВ		0.010	0.0014
Total HpCDD		0.14				
OCDD		ND		0.71	0.001	0
2,3,7,8-TCDF		ND		0.054	0.100	0
Total TCDF		ND		0.054		0
1,2,3,7,8-PeCDF		0.13	J		0.050	0.0065
2,3,4,7,8-PeCDF		ND		0.056	0.500	0
Total PeCDF		0.13				
1,2,3,4,7,8-HxCD	F	ND		0.15	0.100	0
1,2,3,6,7,8-HxCD	F	0.11	J		0.100	0.0110
2,3,4,6,7,8-HxCD	F	0.059	J		0.100	0.0059
1,2,3,7,8,9-HxCD	F	ND		0.065	0.100	0
Total HxCDF		0.17				
1,2,3,4,6,7,8-НрС	DF	0.10	JВ		0.010	0.0010
1,2,3,4,7,8,9-HpC	DF	ND		0.064	0.010	0
Total HpCDF		0.10				
OCDF	•	ND		0.14	0.001	0

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS	
13C-2,3,7,8-TCDD	73	40 - 135	
13C-1,2,3,7,8-PeCDD	87	40 - 135	
13C-1,2,3,6,7,8-HxCDD	71	40 - 135	
13C-1,2,3,4,6,7,8-HpCDD	66	40 - 135	
13C-OCDD	70	40 - 135	
13C-2,3,7,8-TCDF	78	40 - 135	
13C-1,2,3,7,8-PeCDF	74	40 - 135	
13C-1,2,3,4,7,8-HxCDF	63	40 - 135	
13C-1,2,3,4,6,7,8-HpCDF	66	40 - 135	

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; PPA/67573.89/016

В

Total TEQ Concentration

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than the reporting limit.

0.0258

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID:	G6C030290-4 SARA THOMPSON	%Lipid:	0.164%		
	Result		EDL	TEF	TEQ
Analyte	(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
2,3,7,8-TCDF	ND		32.9	0.1	
Total TCDF	ND		32.9		
2,3,7,8-TCDD	ND		30.5	1	
Total TCDD	ND		30.5		
1,2,3,7,8-PeCDF	79.9	J		0.05	3.99
2,3,4,7,8-PeCDF	ND		34.1	0.5	
Total PeCDF	79.9				
1,2,3,7,8-PeCDD	ND		73.8	0.5	
Total PeCDD	ND		73.8		
1,2,3,4,7,8-HxCDF	ND		92.1	0.1	
1,2,3,6,7,8-HxCDF	65.2	J		0.1	6.52
2,3,4,6,7,8-HxCDF	36.0	J		0.1	3.60
1,2,3,7,8,9-HxCDF	ND		39.6	0.1	
Total HxCDF	101.2				
1,2,3,4,7,8-HxCDD	ND		54.9	0.1	
1,2,3,6,7,8-HxCDD	ND		85.4	0.1	
1,2,3,7,8,9-HxCDD	ND		44.5	0.1	
Total HxCDD	ND		85.4		
1,2,3,4,6,7,8-HpCDF	61.0	JB		0.01	0.610
1,2,3,4,7,8,9-HpCDF	ND		39.0	0.01	
Total HpCDF	61.0				
1,2,3,4,6,7,8-HpCDD	85.4	JВ		0.01	0.854
Total HpCDD	85.4			*	
OCDF	ND		85.4	0.001	
OCDD	ND		430	0.001	

Total TEQ Concentration (pg/g lipid): 15.58

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: MARVIN WILLIFORD

Lot-Sample #: Date Sampled: Prep Date:	G6C030290 - 005 03/02/06 03/28/06		Work Order # Date Received: Analysis Date: Dilution Factor:	03/03/06 03/29/06	Matrix Instrume Units % Moist	ent: 8D5 : pg/g
Prep Batch #:	6087532		Ditution Pacion	1 DETECTION	TEF	TEQ
PARAMETER		RESULT		LIMIT	FACTOR	CONCENTRATION
2,3,7,8-TCDD		ND		0.060	1.000	0
Total TCDD		ND		0.060		0
1,2,3,7,8-PeCDD		ND		0.12	0.500	0
Total PeCDD		ND		0.12		0
1,2,3,4,7,8-HxCD	D	ND		0.064	0.100	0
1,2,3,6,7,8-HxCD		ND		0.12	0.100	0
1,2,3,7,8,9-HxCD		0.052	J		0.100	0.0052
Total HxCDD		0.052				
1,2,3,4,6,7,8-HpC	CDD	0.15	JВ		0.010	0.0015
Total HpCDD		0.15				
OCDD	•	0.95	JВ		0.001	0.0010
2,3,7,8-TCDF		ND		0.053	0.100	0
Total TCDF		ND		0.053		0
1,2,3,7,8-PeCDF		ND		0.063	0.050	0
2,3,4,7,8-PeCDF		ND		0.063	0.500	0
Total PeCDF		ND		0.066		0
1,2,3,4,7,8-HxCD	F	ND		0.080	0.100	0
1,2,3,6,7,8-HxCD		ND		0.042	0.100	0
2,3,4,6,7,8-HxCD		ND		0.050	0.100	0
1,2,3,7,8,9-HxCD		ND		0.056	0.100	0
Total HxCDF		ND		0.080		0
1,2,3,4,6,7,8-HpC	CDF	0.074	JB		0.010	0.0007
1,2,3,4,7,8,9-HpC		ND		0.052	0.010	. 0
Total HpCDF		0.074				
OCDF		ND		0.082	0.001	0
Total TEQ Concents	ration					0.0084
			PERCENT		RECOVERY	

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	65	40 - 135
13C-1,2,3,7,8-PeCDD	80	40 - 135
13C-1,2,3,6,7,8-HxCDD	67	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	57	40 - 135
13C-OCDD	64	40 - 135
13C-2,3,7,8-TCDF	69	40 - 135
13C-1,2,3,7,8-PeCDF	71	40 - 135
13C-1,2,3,4,7,8-HxCDF	55	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	58	40 - 135

Notes:

В

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit. J

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/2.89/016

Soil Water Air Protection Enterprise

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID:	G6C030290-5 MARVIN WILLIFORD	%Lipid:	0.078%		
	Result		EDL.	TEF	TEQ
Analyte	(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
2,3,7,8-TCDF	ND		67.9	0.1	
Total TCDF	ND		67.9		
2,3,7,8-TCDD	ND		76.9	1	
Total TCDD	ND		76.9		
1,2,3,7,8-PeCDF	ND		80.8	0.05	
2,3,4,7,8-PeCDF	ND		80.8	0.5	
Total PeCDF	ND		84.6		
1,2,3,7,8-PeCDD	ND		154	0.5	
Total PeCDD	ND [.]		154		
1,2,3,4,7,8-HxCDF	ND		103	0.1	
1,2,3,6,7,8-HxCDF	ND		53.8	0.1	
2,3,4,6,7,8-HxCDF	ND		64.1	0.1	
1,2,3,7,8,9-HxCDF	ND		71.8	0.1	
Total HxCDF	ND		103		
1,2,3,4,7,8-HxCDD	ND		82.1	0.1	
1,2,3,6,7,8-HxCDD	ND		151	0.1	
1,2,3,7,8,9-HxCDD	66.7	J		0.1	6.67
Total HxCDD	66.7				
1,2,3,4,6,7,8-HpCDF	94.9	JΒ		0.01	0.949
1,2,3,4,7,8,9-HpCDF	ND		66.7	0.01	
Total HpCDF	94.9				
1,2,3,4,6,7,8-HpCDD	187	JB		0.01	1.872
Total HpCDD	187				
OCDF	ND		105	0.001	
OCDD	1222	JВ	, i	0.001	1.222

10.71 Total TEQ Concentration (pg/g lipid):

J: Estimated result. Result is less than the reporting limit.

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

G6C030290 - 006

Lot-Sample #...:

0.010

0.010

0.001

Matrix....:

BIOLOGICAL

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: YANCEY BROOKS

H0LMG1AA

Date Sampled: Prep Date: Prep Batch #:	03/02/06 03/28/06 6087532	Date Received: 03/03/06 Analysis Date: 03/29/06 Dilution Factor: 1		Instrument: 8D5 Units: pg/g % Moisture:		
PARAMETER		RESULT	DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION	
2,3,7,8-TCDD		ND	0.072	1.000	0	
Total TCDD		ND	0.072		• 0	
1,2,3,7,8-PeCDD		ND	0.18	0.500	0	
Total PeCDD		ND	0.18		0	
1,2,3,4,7,8-HxCD	ar	ND	0.094	0.100	0	
1,2,3,6,7,8-HxCD		ND	0.072	0.100	0	
1,2,3,7,8,9-HxCD		ND	0.076	0.100	0	
Total HxCDD		ND	0.094		0	
1,2,3,4,6,7,8-HpC	מממ	ND	0.10	0.010	0	
14440 1 1 V 1 V V LAN V					_	

Work Order #...:

5
2

0.070

0.17

Total TEQ Concentration 0.0093

JΒ

0.082

0.059

0.059

ND

ND

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	59	40 - 135
13C-1,2,3,7,8-PeCDD	67	40 - 135
13C-1,2,3,6,7,8-HxCDD	56	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	53	40 - 135
13C-OCDD	51	40 - 135
13C-2,3,7,8-TCDF	63	40 - 135
13C-1,2,3,7,8-PeCDF	60	40 - 135
13C-1,2,3,4,7,8-HxCDF	48	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	52	40 - 135

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/3.89/016

В

Total HxCDF

Total HpCDF

OCDF

1,2,3,4,6,7,8-HpCDF

1,2,3,4,7,8,9-HpCDF

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than the reporting limit.

0.0006

0

0

Soil Water Air Protection Enterprise

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID:	G6C030290-6 YANCEY BRO	OKS	%Lipid:	0.091%		
	F	Result		EDL	TEF	TEQ
Analyte	(pg	/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
2,3,7,8-TCDF	. " -	ND		63.7	0.1	
Total TCDF		ND		63.7		
2,3,7,8-TCDD		ND		79.1	1	
Total TCDD		ND:		79.1		
1,2,3,7,8-PeCDF		ND		95.6	0.05	
2,3,4,7,8-PeCDF		ND		94.5	0.5	
Total PeCDF		ND		95.6		
1,2,3,7,8-PeCDD		ND		199	0.5	
Total PeCDD		ND		199		
1,2,3,4,7,8-HxCDF		90.1	JB		0.1	9.01
1,2,3,6,7,8-HxCDF		ND		56.0	0.1	
2,3,4,6,7,8-HxCDF		ND		67.0	0.1	
1,2,3,7,8,9-HxCDF		ND		75.8	0.1	
Total HxCDF		90.1				
1,2,3,4,7,8-HxCDD		ND		103	0.1	
1,2,3,6,7,8-HxCDD		ND		79.1	0.1	
1,2,3,7,8,9-HxCDD		ND		83.5	0.1	
Total HxCDD		ND		103		
1,2,3,4,6,7,8-HpCDF		64.8	JВ		0.01	0.648
1,2,3,4,7,8,9-HpCDF		ND		76.9	0.01	
Total HpCDF		64.8				
1,2,3,4,6,7,8-HpCDD		ND		110	0.01	
Total HpCDD		ND		110		
OCDF		ND		191	0.001	

Total TEQ Concentration (pg/g lipid): 10.22

0.001

0.562

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

JB.

562

J: Estimated result. Result is less than the reporting limit.

OCDD

Client Sample ID: LORENE THOMPSON

Lot-Sample #: Date Sampled: Prep Date: Prep Batch #:	G6C030290 - 007 03/02/06 03/28/06 6087532		Work Order # Date Received Analysis Date: Dilution Factor	: 03/03/06 03/30/06	Inst Unit	rix: BIOLOGICAL rument: 8D5 s: pg/g Moisture:
PARAMETER		RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD		ND		0.073	1.000	0
Total TCDD		ND		0.073		0
1,2,3,7,8-PeCDD		ND		0.18	0.500	0
Total PeCDD		ND		0.18		0
1,2,3,4,7,8-HxCDD	ı	ND		0.081	0.100	0
1,2,3,6,7,8-HxCDD		ND		0.23	0.100	0
1,2,3,7,8,9-HxCDD)	ND		0.066	0.100	0
Total HxCDD		ND		0.23	0.100	ŏ
1,2,3,4,6,7,8-HpCI	DD	0.17	JB	•	0.010	0.0017
Total HpCDD		0.17	•		31025	0.0017
OCDD		2.1	JВ		0.001	0.0021
2,3,7,8-TCDF		ND		0.047	0.100	0.0021
Total TCDF		ND		0.047	0.100	Ö
1,2,3,7,8-PeCDF		ND		0.086	0.050	0
2,3,4,7,8-PeCDF		ND		0.085	0.500	0
Total PeCDF		ND		0.086	0.500	Ö
1,2,3,4,7,8-HxCDF		0.23	JВ	V.V.	0.100	0.0230
1,2,3,6,7,8-HxCDF		ND		0.055	0.100	0.0230
2,3,4,6,7,8-HxCDF		ND		0.066	0.100	Ö
1,2,3,7,8,9-HxCDF		ND		0.074	0.100	0
Total HxCDF		0.23		0.071	0.100	Ü
1,2,3,4,6,7,8-HpCD	F	0.46	JВ		0.010	0.0046
1,2,3,4,7,8,9-HpCD		ND	0.2	0.089	0.010	0.0040
Total HpCDF		ND		0.54	0.010	0
OCDF		0.38	JB	0.01	0.001	0.0004
Total TEQ Concentrati	on					0.0318
INTERNAL STANDAR	DS		PERCENT RECOVERY		RECOVERY LIMITS	,
13C-2,3,7,8-TCDD		•	59		40 - 135	
13C-1,2,3,7,8-PeCD	D		72	•	40 - 135	
13C-1,2,3,6,7,8-Hx(63		40 - 135	
13C-1,2,3,4,6,7,8-H			56		40 - 135	
13C-OCDD	•		58		40 - 135	
13C-2,3,7,8-TCDF			63		40 - 135	
13C-1,2,3,7,8-PeCD	F		52		40 - 135	
13C-1,2,3,4,7,8-Hx(51		40 - 135	
13C-1,2,3,4,6,7,8-H			54		40 - 135	

	70	
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TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/62572.89/016

J

В

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID:	G6C030290-7	%Lipid:	0.126%		
Client Sample ID:	LORENE THOMPSON				
	Result		EDL	TEF	TEQ
Amaluka	(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
Analyte	(pg/g lipid) ND	riag	37.3	0.1	(1-3-3 -1)
2,3,7,8-TCDF Total TCDF	ND		37.3	V. 1	
	ND		57.9	1	
2,3,7,8-TCDD	ND ND		57.9	•	
Total TCDD	ND		68.3	0.05	
1,2,3,7,8-PeCDF	ND ND		67.5	0.5	
2,3,4,7,8-PeCDF	ND ND		68.3	0.5	
Total PeCDF			146	0.5	
1,2,3,7,8-PeCDD	ND			0.5	
Total PeCDD	ND		146	0.4	40.05
1,2,3,4,7,8-HxCDF	183	JВ	40.7	0.1	18.25
1,2,3,6,7,8-HxCDF	ND		43.7	0.1	
2,3,4,6,7,8-HxCDF	ND		52.4	0.1	
1,2,3,7,8,9-HxCDF	ND		58.7	0.1	
Total HxCDF	183				
1,2,3,4,7,8-HxCDD	ND		64.3	0.1	
1,2,3,6,7,8-HxCDD	ND		183.3	0.1	
1,2,3,7,8,9-HxCDD	ND		52.4	0.1	
Total HxCDD	ND		183		
1,2,3,4,6,7,8-HpCDF	367	JΒ		0.01	3.67
1,2,3,4,7,8,9-HpCDF	ND		70.6	0.01	
Total HpCDF	ND		425		
1,2,3,4,6,7,8-HpCDD	135	JB		0.01	1.349
Total HpCDD	135				
OCDF	299	JB		0.001	0.299
OCDD	1691	JB		0.001	1.69

25.26 Total TEQ Concentration (pg/g lipid):

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Client Sample ID: GLENDA FOUNTAIN

		Onthe Campio			
Lot-Sample #: Date Sampled:	G6C030290 - 008 03/02/06	Work Order #: Date Received:	H0LMM1AA 03/03/06	Matrix: Instrument:	BIOLOGICAL 8D5
Prep Date:	03/28/06	Analysis Date:	03/30/06	Units:	pg/g
Prep Batch #:	6087532	Dilution Factor:	1	% Moisture:	

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		0.074	1.000	0
Total TCDD	ND		0.074		0
1,2,3,7,8-PeCDD	ND		0.17	0.500	0
Total PeCDD	ND		0.17		0
1,2,3,4,7,8-HxCDD	ND		0.11	0.100	0
1,2,3,6,7,8-HxCDD	0.44	J		0.100	0.0440
1,2,3,7,8,9-HxCDD	ND		0.088	0.100	0
Total HxCDD	0.44				
1,2,3,4,6,7,8-HpCDD	0.19	JВ		0.010	0.0019
Total HpCDD	ND		0.19		0.
OCDD	3.6	JВ		0.001	0.0036
2,3,7,8-TCDF	ND		0.057	0.100	0
Total TCDF	ND		0.057		0
1,2,3,7,8-PeCDF	ND		0.086	0.050	0
2,3,4,7,8-PeCDF	ND		0.086	0.500	0
Total PeCDF	ND		0.086		0
1,2,3,4,7,8-HxCDF	0.12	JВ		0.100	0.0120
1,2,3,6,7,8-HxCDF	0.080	J		0.100	0.0080
2,3,4,6,7,8-HxCDF	ND		0.078	0.100	0
1,2,3,7,8,9-HxCDF	ND		0.089	0.100	0
Total HxCDF	0.20				
1,2,3,4,6,7,8-HpCDF	ND		0.092	0.010	0
1,2,3,4,7,8,9-HpCDF	ND		0.094	0.010	0
Total HpCDF	ND		0.094		0
OCDF	ND		0.17	0.001	0
Total TEQ Concentration					0.0695

Total TEQ Concentration		0.0695

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	60	40 - 135
13C-1,2,3,7,8-PeCDD	70	40 - 135
13C-1,2,3,6,7,8-HxCDD	57	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	53	40 - 135
13C-OCDD	54	40 - 135
13C-2,3,7,8-TCDF	64	40 - 135
13C-1,2,3,7,8-PeCDF	62	40 - 135
13C-1,2,3,4,7,8-HxCDF	50	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	51	40 - 135

Notes:

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/3-89/016

Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID:	G6C030290-8 GLENDA FOUNTAIN	%Lipid:	0.142%		
	Result		EDL	TEF	TEQ
Analyte	(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
2,3,7,8-TCDF	ND		40.1	0.1	
Total TCDF	ND		40.1		
2,3,7,8-TCDD	ND		52.1	1	
Total TCDD	ND		52.1		
1,2,3,7,8-PeCDF	ND		60.6	0.05	
2,3,4,7,8-PeCDF	ND		60.6	0.5	
Total PeCDF	ND		60.6		
1,2,3,7,8-PeCDD	ND		123	0.5	
Total PeCDD	ND		123		
1,2,3,4,7,8-HxCDF	85.9	JВ		0.1	8.59
1,2,3,6,7,8-HxCDF	56.3	J		0.1	5.63
2,3,4,6,7,8-HxCDF	ND		54.9	0.1	
1,2,3,7,8,9-HxCDF	ND		62.7	0.1	
Total HxCDF	142				
1,2,3,4,7,8-HxCDD	ND		76.8	0.1	
1,2,3,6,7,8-HxCDD	308	J		0.1	30.8
1,2,3,7,8,9-HxCDD	ND		62.0	0.1	
Total HxCDD	308				
1,2,3,4,6,7,8-HpCDF	ND		64.8	0.01	
1,2,3,4,7,8,9-HpCDF			66.2	0.01	
Total HpCDF	ND		66.2		
1,2,3,4,6,7,8-HpCDD	132	JВ		0.01	1.32
Total HpCDD	ND		132		
OCDF	ND		119	0.001	
OCDD	2546	JВ		0.001	2.55

48.87 Total TEQ Concentration (pg/g lipid):

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Client Sample ID: JAMES CARAWAY

		Chent pampio xx.	VI.20.22		
Lot-Sample #: Date Sampled: Prep Date:	G6C030290 - 009 03/02/06 03/31/06	Work Order #: Date Received: Analysis Date:	H0LMN1AA 03/03/06 04/04/06	Matrix: Instrument: Units: % Moisture:	BIOLOGICAL 8D5 pg/g
Prep Batch #:	6093389	Dilution Factor:	1.	, ,	

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
	ND		0.027	1.000	0
2,3,7,8-TCDD	ND		0.027	2.7.2.2	0
Total TCDD	ND ND		0.062	0.500	0
1,2,3,7,8-PeCDD	ND		0.062	****	0
Total PeCDD	ND ND		0.043	0.100	0
1,2,3,4,7,8-HxCDD	ND ND		0.20	0.100	0
1,2,3,6,7,8-HxCDD	0.075	JВ	0.20	0.100	0.0075
1,2,3,7,8,9-HxCDD	0.075	9.0		*****	
Total HxCDD	0.26	J B		0.010	0.0026
1,2,3,4,6,7,8-HpCDD	0.26	0.25			
Total HpCDD OCDD	1.6	JВ		0.001	0.0016
	ND	O D	0.021	0.100	0
2,3,7,8-TCDF Total TCDF	ND		0.021		0
1,2,3,7,8-PeCDF	0.043	JВ	V.02.	0.050	0.0021
2,3,4,7,8-PeCDF	ND	0.2	0.045	0.500	0
Total PeCDF	0.043		010 15		
1,2,3,4,7,8-HxCDF	0.043	J B		0.100	0.0067
1,2,3,6,7,8-HxCDF	0.051	JВ		0.100	0.0051
2,3,4,6,7,8-HxCDF	0.038	JВ		0.100	0.0038
1,2,3,7,8,9-HxCDF	ND		0.038	0.100	0
Total HxCDF	0.16		0.000		
1,2,3,4,6,7,8-HpCDF	ND .		0.74	0.010	0
1,2,3,4,7,8,9-HpCDF	ND		0.083	0.010	0
Total HpCDF	ND :		0.083		0
OCDF	ND		0.054	0.001	0
	1.2				0.0294
Total TEQ Concentration					
		PERCENT		RECOVER	Y

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS		
13C-2,3,7,8-TCDD	42	40 - 135		
13C-1,2,3,7,8-PeCDD	50	40 - 135		
13C-1,2,3,6,7,8-HxCDD	38 *	40 - 135		
13C-1,2,3,4,6,7,8-HpCDD	34 *	40 - 135		
13C-OCDD	33 *	40 - 135		
13C-2,3,7,8-TCDF	43	40 - 135		
13C-1,2,3,7,8-PeCDF	39 *	40 - 135		
13C-1,2,3,4,7,8-HxCDF	30 *	40 - 135		
13C-1,2,3,4,6,7,8-HpCDF	31 *	40 - 135		

Notes:

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TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/62573.89/016

Surrogate recovery is outside stated control limits.

Method blank contamination. The associated method blank contains the target analyte at a reportable level. В

Estimated result. Result is less than the reporting limit. J

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID:	G6C03029 JAMES CA		%Lipid:	0.117%		
		Result		EDL	TEF	TEQ
Analyte		(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
2,3,7,8-TCDF		ND	·	18.0	0.1	
Total TCDF		ND		18.0		
2,3,7,8-TCDD		ND		23.1	1	
Total TCDD		ND		23.1		
1,2,3,7,8-PeCDF		36.8	JВ		0.05	1.84
2,3,4,7,8-PeCDF		ND		38.5	0.5	
Total PeCDF		36.8				
1,2,3,7,8-PeCDD		ND		53.1	0.5	
Total PeCDD		ND		53.1		
1,2,3,4,7,8-HxCDF		57.4	JΒ		0.1	5.74
1,2,3,6,7,8-HxCDF		43.7	JВ		0.1	4.37
2,3,4,6,7,8-HxCDF		32.5	JB		0.1	3.25
1,2,3,7,8,9-HxCDF		ND		32.5	0.1	
Total HxCDF		134				
1,2,3,4,7,8-HxCDD		ND		36.8	0.1	
1,2,3,6,7,8-HxCDD		ND		171	0.1	
1,2,3,7,8,9-HxCDD		64.2	JB		0.1	6.42
Total HxCDD		64.2				
1,2,3,4,6,7,8-HpCDF		ND		634	0.01	
1,2,3,4,7,8,9-HpCDF		ND		71.1	0.01	
Total HpCDF		ND		71.1		
1,2,3,4,6,7,8-HpCDD		220	JВ		0.01	2.20
Total HpCDD		220				
OCDF		ND		46.2	0.001	4 406
OCDD		1406	JB		0.001	1.406

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

Total TEQ Concentration (pg/g lipid):

25.2

J: Estimated result. Result is less than the reporting limit.

Client Sample ID: TERESA CASSADY

		Chene Sample 12.			
Lot-Sample #: Date Sampled:	G6C030290 - 010 03/02/06	Work Order #: Date Received:	H0LMQ1AA 03/03/06	Matrix: Instrument:	BIOLOGICAL 8D5
Prep Date:	03/31/06	Analysis Date:	04/04/06	Units:	pg/g
Prep Batch #:	6093389	Dilution Factor:	- 1	% Moisture:	

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND	,	0.023	1.000	0
Total TCDD	ND		0.023		0
1,2,3,7,8-PeCDD	ND		0.072	0.500	0
Total PeCDD	ND		0.072		0
1,2,3,4,7,8-HxCDD	ND		0.045	0.100	0
1,2,3,6,7,8-HxCDD	0.48	J		0.100	0.0480
1,2,3,7,8,9-HxCDD	0.10	JВ		0.100	0.0100
Total HxCDD	0.58				
1,2,3,4,6,7,8-HpCDD	0.30	J B		0.010	0.0030
Total HpCDD	0.30				
OCDD	3.5	В		0.001	0.0035
2,3,7,8-TCDF	ND		0.020	0.100	0
Total TCDF	ND		0.020		0
1,2,3,7,8-PeCDF	ND		0.032	0.050	• 0
2,3,4,7,8-PeCDF	ND		0.041	0.500	0
Total PeCDF	ND		0.041		0
1,2,3,4,7,8-HxCDF	0.11	JВ		0.100	0.0110
1,2,3,6,7,8-HxCDF	ND		0.083	0.100	0
2,3,4,6,7,8-HxCDF	0.030	JВ		0.100	0.0030
1,2,3,7,8,9-HxCDF	0.040	J		0.100	0.0040
Total HxCDF	0.18				
1,2,3,4,6,7,8-HpCDF	ND		0.090	0.010	0
1,2,3,4,7,8,9-HpCDF	0.027	J B		0.010	0.0003
Total HpCDF	0.027				
OCDF	ND		0.052	0.001	0
Total TEO Concentration				·	0.0828

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	37 *	40 - 135
13C-1,2,3,7,8-PeCDD	45	40 - 135
13C-1,2,3,6,7,8-HxCDD	35 *	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	31 *	40 - 135
13C-OCDD	29 *	40 - 135
13C-2,3,7,8-TCDF	39 *	40 - 135
13C-1,2,3,7,8-PeCDF	35 *	40 - 135
13C-1.2.3.4.7.8-HxCDF	27 *	40 - 135

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Notes:

13C-1,2,3,4,6,7,8-HpCDF

40 - 135

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TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; PPA/62573-89/016

Surrogate recovery is outside stated control limits.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than the reporting limit.

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID:	G6C030290-10 TERESA CASSADY		%Lipid:	0.127%		
Analyte 2,3,7,8-TCDF Total TCDF		Result (pg/g lipid) ND ND	Flag	EDL. (pg/g lipid) 15.7 15.7	TEF Factor 0.1	TEQ (pg/g lipid)
2,3,7,8-TCDD Total TCDD		ND ND		18.1 18.1	1	
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF		ND ND		25.1 32.2	0.05 0.5	
Total PeCDF 1,2,3,7,8-PeCDD		ND ND		32.2 56.6	0.5	
Total PeCDD 1,2,3,4,7,8-HxCDF		ND 83.3	JB	56.6	0.1	8.33
1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF		ND 23.6	JB	65.2	0.1 0.1	2.36
1,2,3,7,8,9-HxCDF Total HxCDF		31.4 140	J		0.1	3.14
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD		ND 380 78.6	J J B	35.3	0.1 0.1 0.1	38.0 7.86
Total HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF		459 ND 21,2	JB	70.7	0.01 0.01	0.212
Total HpCDF 1,2,3,4,6,7,8-HpCDD		21.2 236	JB		0.01	2.36
Total HpCDD OCDF OCDD		236 ND 2756	В	40.8	0.001 0.001	2.76

65.03 Total TEQ Concentration (pg/g lipid):

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Client Sample ID: SHERRI DAVIS

Lot-Sample #:	G6C030290 - 011				
Date Sampled:	03/02/06				
Prep Date:	03/31/06				

Work Order #...:
Date Received..:
Analysis Date..:

H0LMT1AA 03/03/06 04/04/06 Matrix...: BIOI Instrument: 8D5 Units....: pg/g

BIOLOGICAL

Units....: pg/g % Moisture:

Prep Batch #: 6093389		Dilution Factor: 1			% Moisture:		
PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION		
2,3,7,8-TCDD	ND		0.016	1.000	0		
Total TCDD	ND		0.016		0		
1,2,3,7,8-PeCDD	ND		0.080	0.500	0		
Total PeCDD	ND		0.080		0		
1,2,3,4,7,8-HxCDD	ND		0.025	0.100	0		
1,2,3,6,7,8-HxCDD	0.14	J		0.100	0.0140		
1,2,3,7,8,9-HxCDD	0.027	JВ		0.100	0.0027		
Total HxCDD	0.16						
1,2,3,4,6,7,8-HpCDD	0.25	JВ		0.010	0.0025		
Total HpCDD	0.25						
OCDD	1.6	JB		0.001	0.0016		
2,3,7,8-TCDF	ND	-	0.014	0.100	0		
Z,3,7,6-1CDF Total TCDF	ND		0.014		0		
1,2,3,7,8-PeCDF	ND		0.017	0.050	0		
2,3,4,7,8-PeCDF	0.028	JB		0.500	0.0140		
Total PeCDF	0.028	-					
1,2,3,4,7,8-HxCDF	ND		0.042	0.100	0		
1,2,3,6,7,8-HxCDF	0.026	JВ		0.100	0.0026		
2,3,4,6,7,8-HxCDF	0.017	JB		0.100	0.0017		
1,2,3,7,8,9-HxCDF	ND		0.017	0.100	0		
Total HxCDF	0.043						
1,2,3,4,6,7,8-HpCDF	ND		0.073	0.010	0		
1,2,3,4,7,8,9-HpCDF	ND		0.055	0.010	0		
Total HpCDF	ND		0.073		0		
OCDF	ND		0.035	0.001	0		
					0.0391		
Total TEQ Concentration		PERCENT		RECOVER	RY		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	59	40 - 135
13C-1,2,3,7,8-PeCDD	75	40 - 135
13C-1,2,3,6,7,8-HxCDD	58	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	49	40 - 135
13C-OCDD	46	40 - 135
13C-2,3,7,8-TCDF	60	40 - 135
13C-1,2,3,7,8-PeCDF	57	40 - 135
13C-1,2,3,4,7,8-HxCDF	47	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	45	40 - 135

Notes:

В

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than the reporting limit.

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/62573.89/016

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: G6C030290-11 Client Sample ID: SHERRI DAVIS %Lipid: 0.105%

	Result		EDL	TEF	TEQ
Analyte	(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
2,3,7,8-TCDF	ND	_	13.3	0.1	
Total TCDF	ND		13.3		
2,3,7,8-TCDD	ND		15.2	- 1	
Total TCDD	ND		15.2		
1,2,3,7,8-PeCDF	ND		16.2	0.05	
2,3,4,7,8-PeCDF	26.7	JB		0.5	13.33
Total PeCDF	26.7				
1,2,3,7,8-PeCDD	ND		76.2	0.5	
Total PeCDD	ND		76.2		
1,2,3,4,7,8-HxCDF	ND		40.0	0.1	
1,2,3,6,7,8-HxCDF	24.8	JΒ		0.1	2.48
2,3,4,6,7,8-HxCDF	16.2	JΒ		0.1	1.619
1,2,3,7,8,9-HxCDF	ND		16.2	0.1	
Total HxCDF	41.0				
1,2,3,4,7,8-HxCDD	ND		23.8	0.1	
1,2,3,6,7,8-HxCDD	131	J		0.1	13.14
1,2,3,7,8,9-HxCDD	25.7	JB		0.1	2.57
Total HxCDD	157				
1,2,3,4,6,7,8-HpCDF	ND		69.5	0:01	
1,2,3,4,7,8,9-HpCDF	ND		52.4	0.01	
Total HpCDF	ND		69.5		
1,2,3,4,6,7,8-HpCDD	236	JB		0.01	2.36
Total HpCDD	236				
OCDF	ND		33.3	0.001	
OCDD	1561	JΒ		0.001	1.561

Total TEQ Concentration (pg/g lipid): 37.07

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Client Sample ID: DORTHY DEVAUGHN

		Citotic Dampie 201				
Lot-Sample #: Date Sampled:	G6C030290 - 012 03/02/06	Work Order #: Date Received:	H0LMX1AA 03/03/06		Matrix: Instrument:	BIOLOGICAL 8D5
Prep Date:	03/31/06	Analysis Date:	04/04/06		Units:	pg/g
Prep Batch #:	6093389	Dilution Factor:	1		% Moisture:	
		DF	TECTION	TEF	T	EQ

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		0.038	1.000	0
Total TCDD	ND	•	0.038		0
1,2,3,7,8-PeCDD	ND		0.093	0.500	0
Total PeCDD	ND		0.093		0
1,2,3,4,7,8-HxCDD	0.13	JВ		0.100	0.0130
1,2,3,6,7,8-HxCDD	0.50	JВ		0.100	0.0500
1,2,3,7,8,9-HxCDD	ND		0.090	0.100	0
Total HxCDD	0.63				
1,2,3,4,6,7,8-HpCDD	1.3	JВ		0.010	0.0130
Total HpCDD	1.4				
OCDD	12	В		0.001	0.0120
2,3,7,8-TCDF	ND		0.033	0.100	0
Total TCDF	ND		0.033		0
1,2,3,7,8-PeCDF	ND		0.049	0.050	0
2,3,4,7,8-PeCDF	0.067	JВ		0.500	0.0330
Total PeCDF	0.067				
1,2,3,4,7,8-HxCDF	0.12	J B		0.100	0.0120
1,2,3,6,7,8-HxCDF	0.077	JВ		0.100	0.0077
2,3,4,6,7,8-HxCDF	ND		0.041	0.100	0
1,2,3,7,8,9-HxCDF	ND		0.039	0.100	. 0
Total HxCDF	0.20				
1,2,3,4,6,7,8-HpCDF	ND		0.14	0.010	0
1,2,3,4,7,8,9-HpCDF	ND		0.038	0.010	0
Total HpCDF	ND		0.14		0
OCDF	ND		0.10	0.001	0
Total TEQ Concentration					0.1407

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	40 - 135
13C-1,2,3,7,8-PeCDD	88	40 - 135
13C-1,2,3,6,7,8-HxCDD	67	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	62	40 - 135
13C-OCDD	59	40 - 135
13C-2,3,7,8-TCDF	69	40 - 135
13C-1,2,3,7,8-PeCDF	69	40 - 135
13C-1,2,3,4,7,8-HxCDF	54	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	55	40 - 135

Notes:

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/3-89/016

B J

Soil Water Air Protection Enterprise

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID:	G6C030290-12 DORTHY DEVAUGHN		%Lipid:	0.203%		
Analyte		Result (pg/g lipid)	Flag	EDL (pg/g lipid) 16.3	TEF Factor 0.1	TEQ (pg/g lipid)
2,3,7,8-TCDF		ND ND		16.3	0.1	
Total TCDF 2,3,7,8-TCDD		ND		18.7	1	
Z,3,7,6-1CDD		ND		18.7	•	
1,2,3,7,8-PeCDF		ND		24.1	0.05	
2,3,4,7,8-PeCDF		33.0	JB		0.5	16.50
Total PeCDF		33.0				
1,2,3,7,8-PeCDD		ND		45.8	0.5	
Total PeCDD		ND		45.8		
1,2,3,4,7,8-HxCDF		61.6	JΒ		0.1	6.16
1,2,3,6,7,8-HxCDF		37.9	JB -		0.1	3.79
2,3,4,6,7,8-HxCDF		ND		20.2	0.1	
1,2,3,7,8,9-HxCDF		ND		19.2	0.1	
Total HxCDF		100				
1,2,3,4,7,8-HxCDD		63.1	JΒ		0.1	6.31
1,2,3,6,7,8-HxCDD		249	JВ		0.1	24.9
1,2,3,7,8,9-HxCDD		ND		44.3	0.1	
Total HxCDD		312				
1,2,3,4,6,7,8-HpCDF		ND		69.0	0.01	
1,2,3,4,7,8,9-HpCDF		ND		18.7	0.01	
Total HpCDF		ND		69.0		
1,2,3,4,6,7,8-HpCDD	1	662	JΒ		0.01	6.62
Total HpCDD		690				
OCDF		ND		49.3	0.001	
OCDD		5731	В		0.001	5.73

69.98 Total TEQ Concentration (pg/g lipid):

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Client Sample ID: JANICE MADDEN

		Caroni Sampie AD.	OTALIACE MARKED DELL		
Lot-Sample #:	G6C030290 - 013	Work Order #:	H0LM41AA	Matrix:	BIOLOGICAL
Date Sampled:	03/02/06	Date Received:	03/03/06	Instrument:	8D5
Prep Date:	03/31/06	Analysis Date:	04/04/06	Units:	pg/g
Prep Batch #:	6093389	Dilution Factor:	1	% Moisture:	

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		0.017	1.000	0
Total TCDD	ND		0.017		0
1,2,3,7,8-PeCDD	ND		0.040	0.500	0
Total PeCDD	ND		0.040		0
1,2,3,4,7,8-HxCDD	ND		0.029	0.100	0
1,2,3,6,7,8-HxCDD	0.26	J		0.100	0.0260
1,2,3,7,8,9-HxCDD	0.052	J B		0.100	0.0052
Total HxCDD	0.31				
1,2,3,4,6,7,8-HpCDD	0.18	JВ		0.010	0.0018
Total HpCDD	0.20				
OCDD	3.1	В		0.001	0.0031
2,3,7,8-TCDF	ND		0.015	0.100	0
Total TCDF	ND		0.015		0
1,2,3,7,8-PeCDF	ND		0.018	0.050	0
2,3,4,7,8-PeCDF	0.052	JВ		0.500	0.0260
Total PeCDF	0.052				
1,2,3,4,7,8-HxCDF	0.060	JВ		0.100	0.0060
1,2,3,6,7,8-HxCDF	0.049	JВ	•	0.100	0.0049
2,3,4,6,7,8-HxCDF	ND		0.016	0.100	0
1,2,3,7,8,9-HxCDF	ND		0.018	0.100	0
Total HxCDF	0.11				
1,2,3,4,6,7,8-HpCDF	ND		0.041	0.010	0
1,2,3,4,7,8,9-HpCDF	ND		0.041	0.010	0
Total HpCDF	ND		0.041		0
OCDF	ND		0.024	0.001	0

Total TEQ Concentration 0.0730

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	56	40 - 135
13C-1,2,3,7,8-PeCDD	71	40 - 135
13C-1,2,3,6,7,8-HxCDD	54	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	46	40 - 135
13C-OCDD	45	40 - 135
13C-2,3,7,8-TCDF	58	40 - 135
13C-1,2,3,7,8-PeCDF	52	40 - 135
13C-1,2,3,4,7,8-HxCDF	42	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	42	40 - 135

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/2-39/016

В

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than the reporting limit.

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID:	G6C030290-13 JANICE MADDEN		%Lipid:	0.133%		
		Result		EDL	TEF	TEQ
* 1 ·		(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
Analyte		ND	5	" 1 1.3	0.1	
2,3,7,8-TCDF		ND		11.3		
Total TCDF		ND		12.8	1	
2,3,7,8-TCDD		ND		12.8		
Total TCDD		ND		13.5	0.05	
1,2,3,7,8-PeCDF		39.2	JВ		0.5	19.6
2,3,4,7,8-PeCDF		39.2	~ -			
Total PeCDF		ND		30.1	0.5	
1,2,3,7,8-PeCDD Total PeCDD		ND		30.1		
1,2,3,4,7,8-HxCDF		45.4	JB		0.1	4.54
1,2,3,6,7,8-HxCDF		37.1	JВ		0.1	3.71
2,3,4,6,7,8-HxCDF		ND		12.0	0.1	
1,2,3,7,8,9-HxCDF		ND		13.5	0.1	
Total HxCDF		82.7				
1,2,3,4,7,8-HxCDD		ND		21.8	0.1	
1,2,3,4,7,8-HxCDD		195	J		0.1	19.5
1,2,3,6,7,8-HxCDD		39.5	JΒ		0.1	3.95
Total HxCDD		235				
1,2,3,4,6,7,8-HpCDF		ND		30.8	0.01	
1,2,3,4,7,8,9-HpCDF		ND		30.8	0.01	
Total HpCDF		ND		30.8		
1,2,3,4,6,7,8-HpCDD	i	133	JВ		0.01	1.33
Total HpCDD	•	149	. •			
OCDF		ND		18.0	0.001	
OCDP		2357	В		0.001	2.36
			Total TEQ	Concentration	(pg/g lipid):	55.0

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Client Sample ID: JAMES AT LEN

		Choir Cumpic ID.	OWNERS WITHIN		
Lot-Sample #: Date Sampled:	G6C030290 - 014 03/02/06	Work Order #; Date Received:	H0LNA1AA 03/03/06	Matrix: Instrument:	BIOLOGICAL 8D5
Prep Date:	03/31/06	Analysis Date:	04/04/06	Units:	pg/g
Prep Batch #:	6093389	Dilution Factor:	1	% Moisture:	ros

RESULT	<u>.</u>	DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
ND		0.019	1.000	0
ND		0.019		0
ND		0.042	0.500	0
ND		0.042		0
0.038	J		0.100	0.0038
0.16	J			0.0160
ND		0.022	0.100	0
0.20				v
0.21	JВ		0.010	0.0021
0.21				010021
1.1	JВ		0.001	0.0011
ND		0.016		0
ND			0.100	0
ND		0.019	0.050	0
ND		0.036		0
ND		0.036		0
0.061	JB		0.100	0.0061
0.034	JВ			0.0034
ND		0.015		0
ND		0.016		0
0.095			0.100	V
ND		0.082	0.010	0
ND				0
0.042		**	0.0.0	V
ND		0.035	0.001	0
	ND ND ND ND 0.038 0.16 ND 0.20 0.21 0.21 1.1 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND ND ND 0.038 J 0.16 J ND 0.20 0.21 JB 0.21 1.1 JB ND ND ND ND ND ND ND ND ND ND ND ND ND	ND 0.019 ND 0.019 ND 0.042 ND 0.042 ND 0.042 0.038 J 0.16 J ND 0.022 0.20 0.21 JB 0.21 1.1 JB ND 0.016 ND 0.016 ND 0.016 ND 0.036 ND 0.036 ND 0.036 0.061 JB 0.034 JB ND 0.015 ND 0.016 0.095 ND 0.082 ND 0.031 0.042	ND 0.019 1.000

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	48	40 - 135
13C-1,2,3,7,8-PeCDD	60	40 - 135
13C-1,2,3,6,7,8-HxCDD	49	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	42	40 - 135
13C-OCDD	39 *	40 - 135
13C-2,3,7,8-TCDF	49	40 - 135
13C-1,2,3,7,8-PeCDF	46	40 - 135
13C-1,2,3,4,7,8-HxCDF	36 *	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	37 *	40 - 135

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/R.89/016

Surrogate recovery is outside stated control limits.

Method blank contamination. The associated method blank contains the target analyte at a reportable level. В J

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID:	G6C030290-14
Client Sample ID:	JAMES ALLEN

%Lipid: 0.074%

	Result		EDL	TEF	TEQ
Analyte	(pg/g lipid)	Flag	(pg/g lipid)	Factor	(pg/g lipid)
2,3,7,8-TCDF	ND .	•	21.5	0.1	
Total TCDF	ND		21.5		
2,3,7,8-TCDD	ND		25.6	1	
Total TCDD	ND		25.6		
1,2,3,7,8-PeCDF	ND		25.6	0.05	
2,3,4,7,8-PeCDF	ND		49.0	0.5	
Total PeCDF	ND		48.5		
1,2,3,7,8-PeCDD	ND		56.5	0.5	
Total PeCDD	ND		56.5		
1,2,3,4,7,8-HxCDF	82.6	JВ		0.1	8.26
1,2,3,6,7,8-HxCDF	46.2	JΒ		0.1	4.62
2,3,4,6,7,8-HxCDF	ND		20.2	0.1	
1,2,3,7,8,9-HxCDF	ND		21.5	0.1	
Total HxCDF	128				
1,2,3,4,7,8-HxCDD	51.1	J		0.1	5.11
1,2,3,6,7,8-HxCDD	215	J		0.1	21.48
1,2,3,7,8,9-HxCDD	ND		29.6	0.1	
Total HxCDD	265				
1,2,3,4,6,7,8-HpCDF	ND		110	0.01	
1,2,3,4,7,8,9-HpCDF	ND		41.7	0.01	
Total HpCDF	56.5				
1,2,3,4,6,7,8-HpCDD	284	JΒ		0.01	2.84
Total HpCDD	284				
OCDF	ND		47.1	0.001	
OCDD	1525	JΒ		0.001	1.525
0000					

Total TEQ Concentration (pg/g lipid): 43.8

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: JAMES D ALLEN

G6C030290 - 015 Lot-Sample #...: Date Sampled ...: 03/02/06 Prep Date:

03/31/06 6093389

Work Order # ...: Date Received ..: Analysis Date..:

H0LNF1AA 03/03/06 04/04/06

Matrix....: Instrument: **BIOLOGICAL**

8D5 Units: pg/g

Prep Batch #: 6093389		Dilution Facto	or: 1	% M	oisture:
PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		0.014	1.000	0
Total TCDD	ND		0.015		0
1,2,3,7,8-PeCDD	ND		0.043	0.500	0
Total PeCDD	ND		0.043		0
1,2,3,4,7,8-HxCDD	ND		0.025	0.100	0
1,2,3,6,7,8-HxCDD	0.18	J		0.100	0.0180
1,2,3,7,8,9-HxCDD	0.043	JВ		0.100	0.0043
Total HxCDD	0.22				
1,2,3,4,6,7,8-HpCDD	0.18	JВ		0.010	0.0018
Total HpCDD	0.20				
OCDD	2.2	В		0.001	0.0022
2,3,7,8-TCDF	ND		0.014	0.100	0
Total TCDF	ND		0.014		0
1,2,3,7,8-PeCDF	ND		0.017	0.050	0
2,3,4,7,8-PeCDF	ND		0.026	0.500	0
Total PeCDF	ND		0.026		0
1,2,3,4,7,8-HxCDF	0.053	JВ		0.100	0.0053
1,2,3,6,7,8-HxCDF	0.037	JВ		0.100	0.0037
2,3,4,6,7,8-HxCDF	0.017			0.100	0.0017
1,2,3,7,8,9-HxCDF	0.023	J		0.100	0.0023
Total HxCDF	0.11				
1,2,3,4,6,7,8-HpCDF	ND		0.071	0.010	0
1,2,3,4,7,8,9-HpCDF	ND -		0.026	0.010	0
Total HpCDF	ND		0.071		0
OCDF	ND		0.033	0.001	0
Total TEQ Concentration					0.0393
INTERNAL STANDARDS		PERCENT RECOVERY	• •	RECOVER'	
13C-2,3,7,8-TCDD		50		40 - 135	
13C-1,2,3,7,8-PeCDD		61		40 - 135	
				40 125	

Νc	te	S

13C-OCDD

13C-2,3,7,8-TCDF

13C-1,2,3,7,8-PeCDF

13C-1,2,3,4,7,8-HxCDF

13C-1,2,3,4,6,7,8-HpCDF

13C-1,2,3,6,7,8-HxCDD

13C-1,2,3,4,6,7,8-HpCDD

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; PPA/625/3.29/016

Surrogate recovery is outside stated control limits.

Method blank contamination. The associated method blank contains the target analyte at a reportable level. ₿

50

42

39

52

49

38

38

Estimated result. Result is less than the reporting limit. J

40 - 135

40 - 135

40 - 135

40 - 135

40 - 135

40 - 135

40 - 135

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID:	G6C030290 JAMES D A		%Lipid:	0.073%		
Analyte 2,3,7,8-TCDF		Result (pg/g lipid) ND	Flag	EDL (pg/g lipid) 19.3	TEF Factor 0.1	TEQ (pg/g lipid)
Total TCDF 2,3,7,8-TCDD		ND ND ND		19.3 19.3 20.6	1	
Total TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF		ND ND		23.4 35.8	0.05 0.5	
Total PeCDF 1,2,3,7,8-PeCDD Total PeCDD		ND ND ND		36.3 59.2 58.6	0.5	
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF		73.2 50.6	JB JB		0.1 0.1 0.1	7.32 5.06 2.326
2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF Total HxCDF		23.3 ND 156		31.7	0.1	2.020
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD		ND 243	J	34.4	0.1 0.1 0.1	24.3 5.89
1,2,3,7,8,9-HxCDD Total HxCDD 1,2,3,4,6,7,8-HpCDF		58.9 303 ND	JB	97.7	0.01	0.00
1,2,3,4,7,8,9-HpCDF Total HpCDF		ND ND	t D	35.8 97.2	0.01	2.42
1,2,3,4,6,7,8-HpCDD Total HpCDD OCDF		242 271 ND	JВ	45.4	0.001	
OCDD		3021	B Total TEQ	Concentration	0.001 n (pg/g lipid):	3.02 50.3
			TOTAL IEQ	Concentiation	י (אַטּיטַ ייִאָריי).	

B: Method Blank contamination. The associated method blank contains the target analyte below 1/2 the reporting limit but meets peak identification critieria.

J: Estimated result. Result is less than the reporting limit.

QC DATA ASSOCIATION SUMMARY

G6C030290

Sample Preparation and Analysis Control Numbers

		ANALYTICAL	LEACH	PREP	
SAMPLE#	MATRIX	METHOD	BATCH #	BATCH #	MS RUN#
		m==0.4.5000.0		6087532	
001	BIOLOGIC	SW846 8290			
	BIOLOGIC	SW846 8290		6093444	
002	BIOLOGIC	SW846 8290		6087532	
002	BIOLOGIC	SW846 8290		6093444	
003	BIOLOGIC	SW846 8290		6087532	
	BIOLOGIC	SW846 8290		6093444	
004	BIOLOGIC	SW846 8290		6087532	•
004	BIOLOGIC	SW846 8290		6093444	
	PIOHOGIC	DN040 0230			
005	BIOLOGIC	SW846 8290		6087532	
•••	BIOLOGIC	SW846 8290		6093444	
006	BIOLOGIC	SW846 8290		6087532	
000	BIOLOGIC	SW846 8290		6093444	
	PIONOGIC	5.1010 0230			
007	BIOLOGIC	SW846 8290		6087532	
007	BIOLOGIC	SW846 8290		6093444	
	ртоподто	BW010 0230			
008	BIOLOGIC	SW846 8290		6087532	
000	BIOLOGIC	SW846 8290		6093444	
	DIOLOGIC	511010 0250			
009	BIOLOGIC	SW846 8290		6093389	
	BIOLOGIC	SW846 8290		6095280	
010	BIOLOGIC	SW846 8290		6093389	
	BIOLOGIC	SW846 8290		6095280	
011	BIOLOGIC	SW846 8290		6093389	
	BIOLOGIC	SW846 8290		6095280	
012	BIOLOGIC	SW846 8290		6093389	
022	BIOLOGIC	SW846 8290		6095280	
013	BIOLOGIC	SW846 8290		6093389	
010	BIOLOGIC	SW846 8290		6095280	
	2232332				
014	BIOLOGIC	SW846 8290		6093389	
U14	BIOLOGIC	SW846 8290		6095280	
	21010010	2			

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G6C030290

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
015	BIOLOGIC BIOLOGIC	SW846 8290 SW846 8290		6093389 6095280	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G6C030290

Work Order #...: H15Q11AA

Matrix..... BIOLOGIC

MB Lot-Sample #: G6C280000-532

Prep Date....: 03/28/06 Prep Batch #...: 6087532

Analysis Date..: 03/29/06

Dilution Factor: 1

DETECTION

		DETECTI	OIN	
PARAMETER	RESULT	LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.055	pg/g	SW846 8290
Total TCDD	ND	0.055	pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	0.11	pg/g	SW846 8290
Total PeCDD	ND	0.11	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.061	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.047	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	0.054	pg/g	SW846 8290
Total HxCDD	ND	0.061	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	0.098 J		pg/g	SW846 8290
Total HpCDD	0.098		pg/g	SW846 8290
OCDD	0.32 J		pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.040	pg/g	SW846 8290
Total TCDF	ND	0.040	pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	0.056	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	0.056	pg/g	SW846 8290
Total PeCDF	ND	0.056	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	0.24 J		pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.072	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.069	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	0.065 J		pg/g	SW846 8290
Total HxCDF	0.30		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	0.40 Ј		pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	0.063	pg/g	SW846 8290
Total HpCDF	0.40		pg/g	SW846 8290
OCDF	0.30 J		pg/g	SW846 8290
	PERCENT	RECOVER	Y	
INTERNAL STANDARDS	RECOVERY	LIMITS		
13C-2,3,7,8-TCDD	77	(40 - 1)	35)	
13C-1,2,3,7,8-PeCDD	88	(40 - 1	35)	
13C-1,2,3,6,7,8-HxCDD	77	(40 - 1)	35)	
13C-1,2,3,4,6,7,8-HpCDD	69	(40 - 1)	35)	
13C-OCDD	74	(40 - 1)	35)	
13C-2,3,7,8-TCDF	81	(40 - 1	35)	
13C-1,2,3,7,8-PeCDF	78	(40 - 1)	35)	
13C-1,2,3,4,7,8-HxCDF	63	(40 - 1)	35)	
		•	•	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

67

13C-1,2,3,4,6,7,8-HpCDF

(40 - 135)(40 - 135)

J Estimated result. Result is less than the reporting limit.

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G6C030290

Work Order #...: H2HK31AA

Matrix..... BIOLOGIC

MB Lot-Sample #: G6D030000-389

Prep Date....: 03/31/06 Prep Batch #...: 6093389

Analysis Date..: 04/04/06

Dilution Factor: 1

PARAMETER	RESULT	LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.018	pg/g	SW846 8290
Total TCDD	ND	0.018	pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	0.025	pg/g	SW846 8290
Total PeCDD	ND	0.024	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.022	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.022	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	0.039 J		pg/g	SW846 8290
Total HxCDD	0.039		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	0.060 J		pg/g	SW846 8290
Total HpCDD	0.092		pg/g	SW846 8290
OCDD	0.12 J		pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.011	pg/g	SW846 8290
Total TCDF	ND	0.011	pg/g	SW846 8290
1,2,3,7,8-PeCDF	0.020 J		pg/g	SW846 8290
2,3,4,7,8-PeCDF	0.023 J		pg/g	SW846 8290
Total PeCDF	0.043		pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	0.044 J		pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	0.026 J		pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	0.025 J		pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.025	pg/g	SW846 8290
Total HxCDF	0.095		pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	0.042	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	0.058 J		pg/g	SW846 8290
Total HpCDF	0.058		pg/g	SW846 8290
OCDF	ND	0.026	pg/g	SW846 8290
	PERCENT	RECOVER	Y	
INTERNAL STANDARDS	RECOVERY	LIMITS		
13C-2,3,7,8-TCDD	78	(40 - 1	•	
13C-1,2,3,7,8-PeCDD	96	(40 - 1	35)	
13C-1,2,3,6,7,8-HxCDD	77	(40 - 1	35)	
13C-1,2,3,4,6,7,8-HpCDD	70	(40 - 1	35)	
13C-OCDD	73	(40 - 1)		
13C-2,3,7,8-TCDF	78	(40 - 1)	.35)	
13C-1,2,3,7,8-PeCDF	73	(40 - 1)	.35)	
13C-1,2,3,4,7,8-HxCDF	60	(40 - 1)	.35)	
13C-1,2,3,4,6,7,8-HpCDF	62	(40 - 1)	.35)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Estimated result. Result is less than the reporting limit.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G6C030290 Work Order #...: H15Q11AC Matrix...... BIOLOGIC

LCS Lot-Sample#: G6C280000-532

Prep Date....: 03/28/06 Analysis Date..: 03/29/06

Prep Batch #...: 6087532

Dilution Factor: 1

	PERCENT	RECOVERY	
PARAMETER	RECOVERY	LIMITS	METHOD
2,3,7,8-TCDD	112	(50 - 150)	SW846 8290
1,2,3,7,8-PeCDD	96	(50 - 150)	SW846 8290
1,2,3,4,7,8-HxCDD	90	(50 - 150)	SW846 8290
1,2,3,6,7,8-HxCDD	89	(50 - 150)	SW846 8290
1,2,3,7,8,9-HxCDD	91	(50 - 150)	SW846 8290
1,2,3,4,6,7,8-HpCDD	105	(50 - 150)	SW846 8290
OCDD	99	(50 - 150)	SW846 8290
2,3,7,8-TCDF	121	(50 - 150)	SW846 8290
1,2,3,7,8-PeCDF	102	(50 - 150)	SW846 8290
2,3,4,7,8-PeCDF	103	(50 - 150)	SW846 8290
1,2,3,4,7,8-HxCDF	110	(50 - 150)	SW846 8290
1,2,3,6,7,8-HxCDF	111	(50 - 150)	SW846 8290
2,3,4,6,7,8-HxCDF	110	(50 - 150)	SW846 8290
1,2,3,7,8,9-HxCDF	112	(50 - 150)	SW846 8290
1,2,3,4,6,7,8-HpCDF	94	(50 - 150)	SW846 8290
1,2,3,4,7,8,9-HpCDF	95	(50 - 150)	SW846 8290
	94	(50 - 150)	SW846 8290
OCDF) *	(22 22)	
		PERCENT	RECOVERY

INTERNAL STANDARD	PERCENT	LIMITS
13C-2,3,7,8-TCDD	83	(40 - 135)
13C-1,2,3,7,8-PeCDD	100	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	81	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	69	(40 - 135)
13C-OCDD	73	(40 - 135)
13C-2,3,7,8-TCDF	89	(40 - 135)
13C-1,2,3,7,8-PeCDF	84	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	64	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	68	(40 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G6C030290 Work Order #...: H15Q11AC Matrix...... BIOLOGIC

LCS Lot-Sample#: G6C280000-532

Prep Date....: 03/28/06 Analysis Date..: 03/29/06

Prep Batch #...: 6087532

Dilution Factor: 1

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
2,3,7,8-TCDD	20.0	22.3	pg/g	112	SW846 8290
1,2,3,7,8-PeCDD	100	95.5	pg/g	96	SW846 8290
1,2,3,4,7,8-HxCDD	100	90.3	pg/g	90	SW846 8290
1,2,3,6,7,8-HxCDD	100	88.7	pg/g	89	SW846 8290
1,2,3,7,8,9-HxCDD	100	91.1	pg/g	91	SW846 8290
1,2,3,4,6,7,8-HpCDD	100	105	pg/g	105	SW846 8290
OCDD	200	199	pg/g	99	SW846 8290
2,3,7,8-TCDF	20.0	24.2	pg/g	121	SW846 8290
1,2,3,7,8-PeCDF	100	102	pg/g	102	SW846 8290
2,3,4,7,8-PeCDF	100	103	pg/g	103	SW846 8290
1,2,3,4,7,8-HxCDF	100	110	pg/g	110	SW846 8290
1,2,3,6,7,8-HxCDF	100	111	pg/g	111	SW846 8290
2,3,4,6,7,8-HxCDF	100	110	pg/g	110	SW846 8290
1,2,3,7,8,9-HxCDF	100	112	pg/g	112	SW846 8290
1,2,3,4,6,7,8-HpCDF	100	94.5	pg/g	94	SW846 8290
1,2,3,4,7,8,9-HpCDF	100	95.0	pg/g	95	SW846 8290
OCDF	200	189	pg/g	94	SW846 8290

	PERCENT	RECOVERY
INTERNAL STANDARD	RECOVERY	LIMITS
13C-2,3,7,8-TCDD	83	(40 - 135)
13C-1,2,3,7,8-PeCDD	100	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	81	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	69	(40 - 135)
13C-OCDD	73	(40 - 135)
13C-2,3,7,8-TCDF	89	(40 - 135)
13C-1,2,3,7,8-PeCDF	84	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	64	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	68	(40 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G6C030290 Work Order #...: H2HK31AC Matrix.....: BIOLOGIC

LCS Lot-Sample#: G6D030000-389

Prep Date....: 03/31/06 Analysis Date..: 04/04/06

Prep Batch #...: 6093389

Dilution Factor: 1

	PERCENT	RECOVERY	
PARAMETER	RECOVERY	LIMITS	METHOD
2,3,7,8-TCDD	111	(50 - 150)	SW846 8290
1,2,3,7,8-PeCDD	99	(50 - 150)	SW846 8290
1,2,3,4,7,8-HxCDD	124	(50 - 150)	SW846 8290
1,2,3,6,7,8-HxCDD	97	(50 - 150)	SW846 8290
1,2,3,7,8,9-HxCDD	98	(50 - 150)	SW846 8290
1,2,3,4,6,7,8-HpCDD	104	(50 - 150)	SW846 8290
OCDD	107	(50 - 150)	SW846 8290
2,3,7,8-TCDF	126	(50 - 150)	SW846 8290
1,2,3,7,8-PeCDF	103	(50 - 150)	SW846 8290
2,3,4,7,8-PeCDF	110	(50 - 150)	SW846 8290
1,2,3,4,7,8-HxCDF	113	(50 - 150)	SW846 8290
1,2,3,6,7,8-HxCDF	112	(50 - 150)	SW846 8290
2,3,4,6,7,8-HxCDF	115	(50 - 150)	SW846 8290
1,2,3,7,8,9-HxCDF	117	(50 - 150)	SW846 8290
1,2,3,4,6,7,8-HpCDF	102	(50 - 150)	SW846 8290
1,2,3,4,7,8,9-HpCDF	105	(50 - 150)	SW846 8290
OCDF	97	(50 - 150)	SW846 8290

	PERCENT	RECOVERY
INTERNAL STANDARD	RECOVERY	LIMITS
13C-2,3,7,8-TCDD	78	(40 - 135)
13C-1,2,3,7,8-PeCDD	95	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	75	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	69	(40 - 135)
13C-OCDD	67	(40 - 135)
13C-2,3,7,8-TCDF	79	(40 - 135)
13C-1,2,3,7,8-PeCDF	73	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	60	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	62	(40 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G6C030290 Work Order #...: H2HK31AC Matrix...... BIOLOGIC

LCS Lot-Sample#: G6D030000-389

Prep Date....: 03/31/06 Analysis Date..: 04/04/06

Prep Batch #...: 6093389

Dilution Factor: 1

PARAMETER	SPIKE	MEASURED	TTT 7 M G	PERCENT	
	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
2,3,7,8-TCDD	6.67	7.41	pg/g	111	SW846 8290
1,2,3,7,8-PeCDD	33.3	32.9	pg/g	99	SW846 8290
1,2,3,4,7,8-HxCDD	33.3	41.3	pg/g	124	SW846 8290
1,2,3,6,7,8-HxCDD	33.3	32.4	pg/g	97	SW846 8290
1,2,3,7,8,9-HxCDD	33.3	32.5	pg/g	98	SW846 8290
1,2,3,4,6,7,8-HpCDD	33.3	34.7	pg/g	104	SW846 8290
OCDD	66.7	71.0	pg/g	107	SW846 8290
2,3,7,8-TCDF	6.67	8.39	pg/g	126	SW846 8290
1,2,3,7,8-PeCDF	33.3	34.2	pg/g	103	SW846 8290
2,3,4,7,8-PeCDF	33.3	36.6	pg/g	110	SW846 8290
1,2,3,4,7,8-HxCDF	33.3	37.6	pg/g	113	SW846 8290
1,2,3,6,7,8-HxCDF	33.3	37.3	pg/g	112	SW846 8290
2,3,4,6,7,8-HxCDF	33.3	38.4	pg/g	115	SW846 8290
1,2,3,7,8,9-HxCDF	33.3	38.9	pg/g	117	SW846 8290
1,2,3,4,6,7,8-HpCDF	33.3	34.1	pg/g	102	SW846 8290
1,2,3,4,7,8,9-HpCDF	33.3	35.0	pg/g	105	SW846 8290
OCDF	66.7	64.6	pg/g	97	SW846 8290

	PERCENT	RECOVERY
INTERNAL STANDARD	RECOVERY	LIMITS
13C-2,3,7,8-TCDD	78	(40 - 135)
13C-1,2,3,7,8-PeCDD	95	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	75	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	69	(40 - 135)
13C-OCDD	67	(40 - 135)
13C-2,3,7,8-TCDF	79	(40 - 135)
13C-1,2,3,7,8-PeCDF	73	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	60	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	62	(40 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.



STL Sacramento 880 Riverside Parkway West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059 www.stl-inc.com

April 4, 2006

STL SACRAMENTO PROJECT NUMBER: G6C060130 PO/CONTRACT:

Paul Rosenfeld Soil Water Air Protection Enterprise 201 Wilshire Ave, Second Floor Santa Monica, CA 90401

Dear Dr. Rosenfeld,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on March 6, 2006. These samples are associated with your Florala project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4427.

Sincerely,

Nilo Ligi

Project Manager

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STL SACRAMENTO PROJECT NUMBER G6C060130

Case Narrative

STL Sacramento Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

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Samples: 1, 2, 3, 4, 3, 6
Sample Data Sheets
Method Blank Reports
Laboratory QC Reports

BIOLOGIC, 8290, Lipids, Percent (8290),

Samples: 1, 2, 3, 4, 5, 6

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G6C060130

BIOLOGIC, 8290, Dioxins/Furans, HRGC/HRM

Sample(s): 1, 2, 3, 4, 5, 6

The ending standard, ST0328I from data file, 28MR06A8D5 had a response of - 20.8% for 1,2,3,4,7,8-HxCDD between 20 and 25%. Per the method, an average response factor of the initial and ending standards for this analyte will be calculated (0.75) and applied to all associated samples with a positive result. Negative results are not impacted by this observation.

Sample(s): 1, 2, 3, 4, 5, 6

The method blank shows some hits for target analytes. All hits are well below the lower calibration limit. The chromatographic profile suggests that there may be a very small contamination from the LCS spike. All samples with hits for these analytes will be "B:" flagged

BIOLOGIC, 8290, Lipids, Percent (8290),

Sample(s): 1, 2, 3, 4, 5, 6

The %Lipid determination in blood was performed gravimetrically as hexane extractable material.

There were no other anomalies associated with this project.





STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	04-067-0	South Carolina	87014002
California*	011 9CA	Texas	TX 270-2004A
Colorado	NA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia -	960	West Virginia	9930C; 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	(0) 19244	NFESC	NA NA
Michigan	9947	USACE	NA NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	11666		THE STATE OF THE SECOND CONTRACTOR OF THE SECO

^{*}NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

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Sample Summary G6C060130

<u>WO#</u>	Sample #	Client Sample ID	Sampling Date	Received Date
H0N1R	1	SANDRA COBB	3/3/2006 09:05 AM	3/6/2006 09:10 AM
H0N1V	2	RICKY PHILLIPS	3/3/2006 09:20 AM	3/6/2006 09:10 AM
H0N1X	3	THOMAS DOUGLAS	3/3/2006 10:10 AM	3/6/2006 09:10 AM
H0N12	4	CHARLIE HILL, JR	3/3/2006 10:30 AM	3/6/2006 09:10 AM
H0N13	5	DEBORAH REYNOLDS	3/3/2006 12:20 PM	3/6/2006 09:10 AM
HON15	6	GINGER CRAVEY	3/3/2006 01:00 PM	3/6/2006 09:10 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

STL-Sacramento (916) 373-5600

to CA 95605

Case 2:06-cv-00084-LES-CSC Chair unfilent 20dy3Recond 04/24/2006 Page

Fax 916 372 1059 Severn Trent Laboratories, Inc. **Client Contact** Project Manager: Paul Rosenfeld Ph.D. Site Contact: Paul Rosenfeld Ph.D. 3-3-06 Date: COC No: SWAPE Tel/Fax: 310 795-2335 Lab Contact: Nilo Ligi Carrier: Fed Ex COCs 201 Wilshire Blvd Analysis Turnaround Time Job No. Santa Monica CA 90401 Calendar (C) or Work Days (W) Standard 310 795-2335 Phone TAT if different from Below 310 393 3898 FAX SDG No. 2 weeks Project Name: FLORALA 1 week Site: FLORALA ALABAMA 2 days P O # Doxin 1 day Sample Sample Sample Sample Identification Date Time Matrix Cont. Sample Specific Notes: Sandra Cobb 3-3-06 0905 Blood 3-3-06 0920 Blood Thomas Douclas 3-3-06 1010 Blood 3-3-06 1030 10 Blood 5- Deborah Reynolds 3-3-04/220 Blood 3-3-06 1300 Blood Blood Blood Blood Blood Blood Blood Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Flammable Skin Irritant Poison B Archive For Return To Client Disposal By Lab Unknown Special Instructions/QC Requirements & Comments: Company: Relinquished by: Company: Date/Time: Received by: Company: Date/Time:

SEVERN STL

LOT RECEIPT CHECKLIST **STL Sacramento**

37540

CUENT SIA	YGADE-		PM_ <u>\</u>	LOG #	69295	= 013/6/cas
CLIENT U	Ci data	131 0	HOTE# 698	295 LOC	ATION WF	1
LOT# (QUANTIMS ID)	<u> 96000</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	0012#		Initials	Date
· _			1910		C	,
DATE RECEIVED 3	100 100	ME RECEIVED _	0110		1	1
CUSTODY SEAL STATE CUSTODY SEAL #(S) SHIPPPING CONTAIN TEMPERTURE RECORD COC #(S)	ier(s)	BROKEN CLIENT 1 3 1	ATE	ETTERS		
	NK Observed:_	V Corr	ected:			1
SAMPLE TEMPERAT	ΓURE	ne U Co	rrected Averag	je: 4		
observed: collector's NAME	→ Avera	erified from CO	c Not	on COC		
pH MEASURED				⊠N/A		
LABELS CHECKED B PEER REVIEW	Υ	🛮 NA	***************************************	••••		
SHORT HOLD TEST	NOTIFICATION		SAMPLE RECEI WETCHEM VOA-ENCORES	☑N/A		
METALS NOTIFIE	ED OF FILTER/PRESE	RVE VIA VERBAI	. & EMAIL	N/A		
COMPLETE SHIF	PMENT RECEIVED IN EMPERATURES, COL	GOOD CONDITIONTAINERS, PRES	ON WITH ERVATIVES	□ N/A		
☐ Clouseau	TEMPER/	ATURE EXCEEDE		∐ N/A	V	<u> </u>
☐ WET ICE	☐ BLUE ICE	GEL PACK	∴ No coorin	IG AGENTS	USED	PM NOTIFIED
Jtes:						

BIOLOGIC, 8290, Dioxins/Furans, HRGC/HRM

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: SANDRA COBB

Lot-Sample #...: Date Sampled...: G6C060130 - 001 03/03/06

Work Order # ...: Date Received ..:

H0N1R1AA 03/06/06

Matrix....: Instrument: **BIOLOGICAL** 8D5

Date Sampled: 03/03/06 Prep Date: 03/22/06		Date Received. Analysis Date		Units	pg/g
Prep Batch #: 6085040		Dilution Facto		% Mois	ture:
PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
	ND		0.076	1.000	0
2,3,7,8-TCDD	ND		0.076		0
Total TCDD	ND		0.16	0.500	0
1,2,3,7,8-PeCDD	ND		0.16		0
Total PeCDD	ND		0.18	0.100	0
1,2,3,4,7,8-HxCDD	ND		0.29	0.100	0
1,2,3,6,7,8-HxCDD	ND		0.17	0.100	0
1,2,3,7,8,9-HxCDD	ND		0.29		0
Total HxCDD	0.64	J	0.23	0.010	0.0064
1,2,3,4,6,7,8-HpCDD	0.64				
Total HpCDD	2.5	JВ		0.001	0.0025
OCDD		JD	0.068	0.100	0
2,3,7,8-TCDF	ND		0.068	••••	0
Total TCDF	ND	Ŧ	0.000	0.050	0.0075
1,2,3,7,8-PeCDF	0.15	J	0.11	0.500	0
2,3,4,7,8-PeCDF	ND		0.11	0.500	
Total PeCDF	0.15			0.100	0.0300
1 ~ 3,4,7,8-HxCDF	0.30	J		0.100	0.0220
,6,7,8-HxCDF	0.22	J	0.16	0.100	0
2,3,4,6,7,8-HxCDF	ND	τ	0.10	0.100	0.0290
1,2,3,7,8,9-HxCDF	0.29	J		0.100	
Total HxCDF	0.50	TD		0.010	0.0028
1,2,3,4,6,7,8-HpCDF	0.28	JВ		0.010	0.0023
1,2,3,4,7,8,9-HpCDF	0.23	J		0.010	0.0025
Total HpCDF	0.51			0.001	0.0004
OCDF	0.37	JВ		0.001	
Total TEQ Concentration					0.1029
INTERNAL STANDARDS		PERCENT RECOVERY		RECOVERY LIMITS	·
		64		40 - 135	
13C-2,3,7,8-TCDD		77		40 - 135	
13C-1,2,3,7,8-PeCDD		63		40 - 135	
13C-1,2,3,6,7,8-HxCDD		54		40 - 135	
13C-1,2,3,4,6,7,8-HpCDD 13C-OCDD		58		40 - 135	
13C-2,3,7,8-TCDF		60		40 - 135	
13C-2,3,7,8-1CDF 13C-1,2,3,7,8-PeCDF		72		40 - 135	
13C-1,2,3,4,7,8-HxCDF		55		40 - 135	
13C-1,2,3,4,6,7,8-HpCDF		60		40 - 135	
150-1,2,5,4,0,7,0-110001					

Notes:

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated anzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC;

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Soil Water Air Protection Enterprise

Lipids, Percent (8290)

Client Sample ID: SANDRA COBB

Lot-Sample # ...: Date Sampled ...: G6C060130 - 001

03/03/06

03/22/06

Work Order # ...: Date Received ..:

Analysis Date ..:

Dilution Factor:

H0N1R1AC

03/06/06

04/03/06

Matrix: Instrument: **BIOLOGICAL**

Units....:

NA %

% Moisture:

Prep Date: Prep Batch # ...: PARAMETER

6085042

RESULT

1 DETECTION

TEF **FACTOR** TEQ

CONCENTRATION

Percent Lipids

0.18

LIMIT 0.10

Total TEQ Concentration

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/3_80/016

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID:

G6C060130-1

% Lipid: 0.18%

SANDRA COBB Client Sample ID:

	Result (pg/g		EDL (pg/g	TEF	TEQ
Analyte	lipid)	Flag	lipid)	Factor	Concentration
2,3,7,8-TCDF	ND		37	0.1	
Total TCDF	ND		37		
2,3,7,8-TCDD	ND		42	1	
Total TCDD	ND		42		
1,2,3,7,8-PeCDF	81	J ·		0.05	4.0
Total PeCDF	81				•
2,3,4,7,8-PeCDF	ND		62	0.5	
1,2,3,7,8-PeCDD	ND		88	0.5	
Total PeCDD	ND		88		
1,2,3,4,7,8-HxCDF	170	J		0.1	17
1,2,3,6,7,8-HxCDF	120	J		0.1	12
2,3,4,6,7,8-HxCDF	ND		88	0.1	
1,2,3,7,8,9-HxCDF	160	J		0.1	16
Total HxCDF	280				
1,2,3,4,7,8-HxCDD	ND		97	0.1	
1,2,3,6,7,8-HxCDD	ND		161	0.1	
1,2,3,7,8,9-HxCDD	ND		96	0.1	
Total HxCDD	ND		161		
1,2,3,4,6,7,8-HpCDF	160	JB		0.01	1.6
1,2,3,4,7,8,9-HpCDF	130	J		0.01	1.3
Total HpCDF	280				
1,2,3,4,6,7,8-HpCDD	350			0.01	3.5
Total HpCDD	350		•		
OCDF	200	JΒ		0.001	0.20
OCDD	1400	В		0.001	1.4
Total TEQ Concentration					57

Method Blank contamination. The associated method blank contains the target

analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: RICKY PHILLIPS

		-			
Lot-Sample #:	G6C060130 - 002	Work Order #:	H0N1V1AA	Matrix:	BIOLOGICAL
Date Sampled:	03/03/06	Date Received:	03/06/06	Instrument:	8D5
Prep Date:	03/22/06	Analysis Date:	03/29/06	Units:	pg/g
Prep Batch #:	6085040	Dilution Factor:	. 1	% Moisture:	

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		0.072	1.000	0
Total TCDD	ND		0.072	•	0
1,2,3,7,8-PeCDD	ND		0.18	0.500	0
Total PeCDD	ND		0.18		0
1,2,3,4,7,8-HxCDD	ND		0.12	0.100	0
1,2,3,6,7,8-HxCDD	0.15	J		0.100	0.0150
1,2,3,7,8,9-HxCDD	ND		0.099	0.100	0
Total HxCDD	0.15				
1,2,3,4,6,7,8-HpCDD	0.24	J		0.010	0.0024
Total HpCDD	0.24				
OCDD	1.5	JB		0.001	0.0015
2,3,7,8-TCDF	ND		0.067	0.100	0
Total TCDF	ND		0.067		0
1,2,3,7,8-PeCDF	ND		0.079	0.050	0
2,3,4,7,8-PeCDF	ND		0.079	0.500	0
Total PeCDF	ND		0.080		0
1 ^ 3,4,7,8-HxCDF	ND		0.095	0.100	0
. ,6,7,8-HxCDF	ND		0.076	0.100	0
2,3,4,6,7,8-HxCDF	ND		0.091	0.100	0
1,2,3,7,8,9-HxCDF	ND		0.10	0.100	0
Total HxCDF	ND		0.10		0
1,2,3,4,6,7,8-HpCDF	ND		0.082	0.010	0
1,2,3,4,7,8,9-HpCDF	ND		0.089	0.010	0
Total HpCDF	ND		0.089		0
OCDF	ND		0.14	0.001	, 0
Total TEO Communication					0.0400

Total TEQ Concentration 0.0189

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	66	40 - 135
13C-1,2,3,7,8-PeCDD	74	40 - 135
13C-1,2,3,6,7,8-HxCDD	56	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	55	40 - 135
13C-OCDD	58	40 - 135
13C-2,3,7,8-TCDF	60	40 - 135
13C-1,2,3,7,8-PeCDF	72	40 - 135
13C-1,2,3,4,7,8-HxCDF	46	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	53	40 - 135

Notes:

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated disense-p-dioxins and -dibensefurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; /625/3-29/016

Lipids, Percent (8290)

Client Sample ID: RICKY PHILLIPS

Lot-Sample #...:

G6C060130 - 002

Date Sampled...:

03/03/06

03/22/06 Prep Date: 6085042 Prep Batch # ...:

Work Order # ...:

H0N1V1AC

Matrix...: Instrument: **BIOLOGICAL**

Date Received ..: Analysis Date ..: 03/06/06 04/03/06

Units....:

NA %

Dilution Factor:

1

% Moisture:

PARAMETER

RESULT

DETECTION LIMIT

TEF **FACTOR** TEQ CONCENTRATION

0.25

0.10

Percent Lipids

Total TEQ Concentration

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/3-89/016

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID:

G6C060130-2

% Lipid:

0.25%

Client Sample ID:

RICKY PHILLIPS

	Result		EDL (pg/g	TEF	TEQ
Analyte	(pg/g lipid)	Flag	lipid)	Factor	Concentration
2,3,7,8-TCDF	ND		27	0.1	
Total TCDF	ND		27		
2,3,7,8-TCDD	ND		29	1	
Total TCDD	ND .		29		
1,2,3,7,8-PeCDF	ND		31	0.05	
2,3,4,7,8-PeCDF	ND		31		
Total PeCDF	ND		32	0.5	
1,2,3,7,8-PeCDD	ND		69	0.5	
Total PeCDD	ND ·		69		
1,2,3,4,7,8-HxCDF	ND		38	0.1	
1,2,3,6,7,8-HxCDF	ND		30	0.1	
2,3,4,6,7,8-HxCDF	ND		36	0.1	
1,2,3,7,8,9-HxCDF	ND		41	0.1	
Total HxCDF	, ND		41		
1,2,3,4,7,8-HxCDD	ND		48	0.1	
1,2,3,6,7,8-HxCDD	59	J		0.1	5.9
1,2,3,7,8,9-HxCDD	ND		39	0.1	
Total HxCDD	59				
1,2,3,4,6,7,8-HpCDF	ND		- 32	0.01	
1,2,3,4,7,8,9-HpCDF	ND		35	0.01	
Total HpCDF	ND.		35		
1,2,3,4,6,7,8-HpCDD	97	J		0.01	0.97
Total HpCDD	97				
OCDF	ND		54	0.001	
OCDD	580	JB		0.001	0.58

Total TEQ Concentration

7.4

В

Method Blank contamination. The associated method blank contains the target

analyte at a reportable level.

J

Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: THOMAS DOUGLAS

Lot-Sample #: Date Sampled:	G6C060130 - 003 03/03/06		Work Order # Date Received		H0N1X1AA 03/06/06		Matrix: Instrument:	BIOLOGICAL 8D5
Prep Date:	03/22/06		Analysis Date:		03/29/06		Units:	pg/g
Prep Batch #:	6085040		Dilution Factor		1	•	% Moisture	
PARAMETER		RESULT		DETE LIMIT	CTION	TEF FACTOR	Т	TEQ CONCENTRATION
2,3,7,8-TCDD		ND		0.087	,	1.000		0
Total TCDD		ND		0.087		1.000		0
1,2,3,7,8-PeCDD		ND		0.22		0.500		0
Total PeCDD	-	ND		0.22		0.000		0
1,2,3,4,7,8-HxCDD		ND		0.14		0.100		0
1,2,3,6,7,8-HxCDD		0.21	J			0.100		0.0210
1,2,3,7,8,9-HxCDD		ND		0.11		0.100		0
Total HxCDD		0.21		•		01200		v
1,2,3,4,6,7,8-HpCD	D	0.38	J			0.010	1	0.0038
Total HpCDD		0.38				0.010	,	0.0050
OCDD		1.8	JВ			0.001	•	0.0018
2,3,7,8-TCDF		ND		0.076		0.100)
Total TCDF		ND		0.076		0.100)
1,2,3,7,8-PeCDF		ND		0.091		0.050)
2,3,4,7,8-PeCDF		ND		0.090		0.500)
Total PeCDF		ND		0.091		0.00	Ì	
1 ~ 3,4,7,8-HxCDF		0.25	J			0.100		0.0250
1, , 6,7,8-HxCDF		0.12	J			0.100		0.0120
2,3,4,6,7,8-HxCDF		0.10	J			0.100		0.0100
1,2,3,7,8,9-HxCDF		ND		0.11		0.100	Ò	
Total HxCDF		0.48		****		0.100	,	•
1,2,3,4,6,7,8-HpCDF	۲ _.	0.45	JВ			0.010	n	0.0045
1,2,3,4,7,8,9-HpCDF		ND		0.10		0.010	Ö	
Total HpCDF		0.45		0.10		0.010		•
OCDF		0.73	JB			0.001	0	.0007
Total TEQ Concentratio	n						0	.0788
INTERNAL STANDARI	os		PERCENT RECOVERY			RECOV LIMITS		
13C-2,3,7,8-TCDD		-	55			40 - 1	35	
13C-1,2,3,7,8-PeCDI	D .		53			40 - 1		
13C-1,2,3,6,7,8-HxC	DD		50			40 - 1		
13C-1,2,3,4,6,7,8-Hp			16			40 - 1		
13C-OCDD			18			40 - 1		
13C-2,3,7,8-TCDF			0			40 - 1		
13C-1,2,3,7,8-PeCDI	7		53			40 - 1		
13C-1,2,3,4,7,8-HxC		4	4			40 - 1		
13C-1,2,3,4,6,7,8-Hp	CDF	5	0			40 - 1		

Notes:

ь

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated uzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC;

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise Lipids, Percent (8290)

Client Sample ID: THOMAS DOUGLAS

Lot-Sample #...:
Date Sampled...:

Prep Date:

Prep Batch # ...:

G6C060130 - 003

03/03/06

03/22/06 6085042 Work Order #...:
Date Received..:

H0N1X1AC

Matrix....: Instrument: BIOLOGICAL

Date Received..: 03/06/06
Analysis Date..: 04/03/06

NA %

Dilution Factor:

1

% Moisture:

Units....:

PARAMETER

RESULT

0.22

DETECTION LIMIT

0.10

TEF FACTOR

TEQ CONCENTRATION

Percent Lipids

Total TEQ Concentration

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/675/72.89/016

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID:

G6C060130-3

% Lipid:

0.22%

Client Sample ID:

THOMAS DOUGLAS

	Result		EDL (pg/g	TEF	TEQ
Analyte	(pg/g lipid)	Flag	lipid)	Factor	Concentration
2,3,7,8-TCDF	ND		34	0.1	
Total TCDF	ND		34		
2,3,7,8-TCDD	ND		39	- 1	
Total TCDD	ND		39		
1,2,3,7,8-PeCDF	ND		41	0.05	
2,3,4,7,8-PeCDF	ND		41		
Total PeCDF	ND		41	0.5	
1,2,3,7,8-PeCDD	ND		98	0.5	
Total PeCDD	ND		98		
1,2,3,4,7,8-HxCDF	110	J		0.1	11
1,2,3,6,7,8-HxCDF	55	J		0.1	5.5
2,3,4,6,7,8-HxCDF	46	J		0.1	4.6
1,2,3,7,8,9-HxCDF	ND		50	0.1	
Total HxCDF	210				
1,2,3,4,7,8-HxCDD	ND		63	0.1	
1,2,3,6,7,8-HxCDD	95	J		0.1	9.5
1,2,3,7,8,9-HxCDD	ND		51	0.1	
Total HxCDD	95				
1,2,3,4,6,7,8-HpCDF	200	JВ		0.01	2.0
1,2,3,4,7,8,9-HpCDF	ND		45	0.01	
Total HpCDF	200				
1,2,3,4,6,7,8-HpCDD	170	J		0.01	1.7
Total HpCDD	170				
OCDF	330	JB		0.001	0.33
OCDD	820	JΒ		0.001	0.82
Total TEQ Concentration					35

В

Method Blank contamination. The associated method blank contains the target

analyte at a reportable level.

J Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: CHARLIE HILL, JR

Lot-Sample #: Date Sampled: Prep Date: Prep Batch #:	G6C060 03/03/06 03/22/06 60850	5		Work Order #. Date Received. Analysis Date. Dilution Facto	: .:	H0N121AA 03/06/06 03/29/06 1		Matrix: Instrument: Units: % Moisture	pg/g
PARAMETER			RESULT		DETEC <u>LIMIT</u>	CTION	TEF FACTOR		TEQ CONCENTRATION
2,3,7,8-TCDD			ND		0.087		1.000		0
Total TCDD			ND		0.087		1,000		0
1,2,3,7,8-PeCDD			ND		0.21		0.500		0
Total PeCDD			ND		0.21				0
1,2,3,4,7,8-HxCDD			ND		0.12		0.100		0
1,2,3,6,7,8-HxCDD			ND		0.21		0.100		0
1,2,3,7,8,9-HxCDD			ND		0.098		0.100		0
Total HxCDD			ND		0.21				0
1,2,3,4,6,7,8-HpCD	D		0.22	J			0.010		0.0022
Total HpCDD			0.22						
OCDD			ND		1.2		0.001		0
2,3,7,8-TCDF			ND		0.086		0.100		0
Total TCDF			ND	•	0.086				0
1,2,3,7,8-PeCDF			ND		0.10		0.050		0,
2,3,4,7,8-PeCDF			ND		0.099		0.500		0
Total PeCDF			ND		0.10				0
1.9 3,4,7,8-HxCDF			ND		0.12		0.100		0
1 ,6,7,8-HxCDF			ND		0.074		0.100		0
2,3,4,6,7,8-HxCDF			ND		0.088		0.100		0
1,2,3,7,8,9-HxCDF			ND		0.099		0.100		0
Total HxCDF			ND		0.12				0
1,2,3,4,6,7,8-HpCDI			0.17	JВ			0.010		0.0017
1,2,3,4,7,8,9-HpCDF			ND		0.074		0.010		0
Total HpCDF			0.41						
OCDF			ND		0.20		0.001	1,	0
Total TEQ Concentration	on _c							1	0.0039
INTERNAL STANDARI	D\$	_		PERCENT RECOVERY			RECO' LIMIT:		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS		
13C-2,3,7,8-TCDD	55	40 - 135		
13C-1,2,3,7,8-PeCDD	63	40 - 135		
13C-1,2,3,6,7,8-HxCDD	51	40 - 135		
13C-1,2,3,4,6,7,8-HpCDD	47	40 - 135		
13C-OCDD	48	40 - 135		
13C-2,3,7,8-TCDF	52	40 - 135		
13C-1,2,3,7,8-PeCDF	60	40 - 135		
13C-1,2,3,4,7,8-HxCDF	44	40 - 135		
13C-1,2,3,4,6,7,8-HpCDF	50	40 - 135		

Notes:

J

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC;

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise Lipids, Percent (8290)

Client Sample ID: CHARLIE HILL,JR

Lot-Sample #...:

G6C060130 - 004

Date Sampled ...:

03/03/06

Prep Date: Prep Batch #...: 03/22/06 6085042 Work Order # ...:

Date Received ..:

Analysis Date ..:

Dilution Factor:

H0N121AC

03/06/06

Matrix....: Instrument: **BIOLOGICAL**

04/03/06

Units....:

NA %

% Moisture:

PARAMETER

RESULT

DETECTION

TEF **FACTOR** TEQ

CONCENTRATION

Percent Lipids

0.19

LIMIT 0.10

Total TEQ Concentration

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/3-89/016

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID:

G6C060130-4

% Lipid:

0.19%

Client Sample ID:

CHARLIE HILL, JR

	Result		EDL (pg/g	TEF	TEQ
Analyte	(pg/g lipid)	Flag	lipid)	Factor	Concentration
2,3,7,8-TCDF	ND		46	0.1	
Total TCDF	ND		46		
2,3,7,8-TCDD	ND		47	1	
Total TCDD	ND		47		
1,2,3,7,8-PeCDF	ND		54	0.05	
2,3,4,7,8-PeCDF	ND		53		
Total PeCDF	ND		54	0.5	
1,2,3,7,8-PeCDD	ND		110	0.5	
Total PeCDD	ND		110		
1,2,3,4,7,8-HxCDF	ND		62	0.1	
1,2,3,6,7,8-HxCDF	ND		40	0.1	
2,3,4,6,7,8-HxCDF	ND		47	0.1	
1,2,3,7,8,9-HxCDF	ND		53	0.1	•
Total HxCDF	ND		62		
1,2,3,4,7,8-HxCDD	ND		64	0.1	
1,2,3,6,7,8-HxCDD	ND		110	0.1	
1,2,3,7,8,9-HxCDD	ND		52	0.1	
Total HxCDD	ND		110		
1,2,3,4,6,7,8-HpCDF	91	JB		0.01	0.91
1,2,3,4,7,8,9-HpCDF	ND		40	0.01	
Total HpCDF	220				
1,2,3,4,6,7,8-HpCDD	120	J		0.01	1.2
Total HpCDD	120				
OCDF	ND		110	0.001	
OCDD	ND		640	0.001	
OODD					
					~ 4

Total TEQ Concentration

2.1

В

Method Blank contamination. The associated method blank contains the target

analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: DEBORAH REYNOLDS

		CHCHE Dumpre x~ ~			
Lot-Sample #: Date Sampled:	G6C060130 - 005 03/03/06	Work Order #: Date Received:	H0N131AA 03/06/06	Matrix: Instrument:	BIOLOGICAL 8D5
Prep Date:	03/22/06	Analysis Date:	03/29/06	Units:	pg/g
Prep Batch #:	6085040	Dilution Factor:	1	% Moisture:	

PARAMETER	RESULT		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		0.097	1.000	0
Total TCDD	ND		0.097		0
1,2,3,7,8-PeCDD	ND		0.23	0.500	0
Total PeCDD	ND		0.23		0
1,2,3,4,7,8-HxCDD	ND		0.13	0.100	0
1,2,3,6,7,8-HxCDD	ND		0.10	0.100	0
1,2,3,7,8,9-HxCDD	ND		0.11	0.100	0
Total HxCDD	ND		0.13		0
1,2,3,4,6,7,8-HpCDD	ND		0.22	0.010	0
Total HpCDD	ND		0.22		0
OCDD	1.6	JВ		0.001	0.0016
2,3,7,8-TCDF	ND		0.081	0.100	0
Total TCDF	ND		0.081		0
1,2,3,7,8-PeCDF	ND		0.11	0.050	0
2,3,4,7,8-PeCDF	ND		0.11	0.500	0
Total PeCDF	ND		0.11		0
1,2 3,4,7,8-HxCDF	ND		0.16	0.100	0
1 6,7,8-HxCDF	ND		0.066	0.100	0
2,3,4,6,7,8-HxCDF	ND		0.079	0.100	0
1,2,3,7,8,9-HxCDF	ND		0.089	0.100	0
Total HxCDF	ND		0.16		0
1,2,3,4,6,7,8-HpCDF	0.31	JВ		0.010	0.0031
1,2,3,4,7,8,9-HpCDF	ND	~ -	0.096	0.010	0
	0.31				
Total HpCDF	0.47	JВ		0.001	0.0005
OCDF	0.47	V D			0.0052
Total TEQ Concentration					U.UU32
		PERCENT	*	RECOVERY	
INTERNAL STANDARDS		RECOVERY		LIMITS	

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	54	40 - 135 40 - 135
13C-1,2,3,7,8-PeCDD 13C-1,2,3,6,7,8-HxCDD	60 47	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	49	40 - 135
13C-OCDD	52 49	40 - 135 40 - 135
13C-2,3,7,8-TCDF 13C-1,2,3,7,8-PeCDF	61	40 - 135
13C-1,2,3,4,7,8-HxCDF 13C-1,2,3,4,6,7,8-HpCDF	42 49	40 - 135 40 - 135
13C-1,2,3,4,0,7,6-npCDF	••	

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; 2472-89/016

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

Lipids, Percent (8290)

Client Sample ID: DEBORAH REYNOLDS

Lot-Sample #...: Date Sampled ...: G6C060130 - 005

03/03/06

Prep Date: Prep Batch #...: 03/22/06 6085042 Work Order #...:

H0N131AC

03/06/06

Matrix...: Instrument: **BIOLOGICAL**

Date Received ..:

04/03/06

Units....:

NA %

Analysis Date..: **Dilution Factor:**

% Moisture:

PARAMETER

RESULT

DETECTION

TEF **FACTOR** TEQ CONCENTRATION

Percent Lipids

0.20

LIMIT 0.10

Total TEQ Concentration

Notes:

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxina and -dibenzo-furans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; FPA/625/3-89/016

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID:

G6C060130-5

% Lipid:

0.20%

Client Sample ID:

DEBORAH REYNOLDS

	Result		EDL (pg/g	TEF	TEQ
Analyte	(pg/g lipid)	Flag	lipid)	Factor	Concentration
2,3,7,8-TCDF	ND	•	42	0.1	
Total TCDF	ND		42		
2,3,7,8-TCDD	ND		50	1	
Total TCDD	ND		50		
1,2,3,7,8-PeCDF	ND		55	0.05	
2,3,4,7,8-PeCDF	ND		54		
Total PeCDF	ND		55	0.5	
1,2,3,7,8-PeCDD	ND		120	0.5	
Total PeCDD	ND		120		
1,2,3,4,7,8-HxCDF	ND		82	0.1	
1,2,3,6,7,8-HxCDF	ND		34	0.1	
2,3,4,6,7,8-HxCDF	ND		41	0.1	
1,2,3,7,8,9-HxCDF	ND		46	0.1	
Total HxCDF	ND		82		
1,2,3,4,7,8-HxCDD	ND		68	0.1	
1,2,3,6,7,8-HxCDD	ND		52	0.1	
1,2,3,7,8,9-HxCDD	ND		55	0.1	
Total HxCDD	ND		68		
1,2,3,4,6,7,8-HpCDF	160	JB		0.01	1.60
1,2,3,4,7,8,9-HpCDF	ND		49	0.01	
Total HpCDF	160				
1,2,3,4,6,7,8-HpCDD	ND		110	0.01	
Total HpCDD	ND		110		
OCDF	240	JB		0.001	0.24
OCDD	841	JB		0.001	0.84
Total TEO Concentration					27

Total TEQ Concentration

2.7

В

Method Blank contamination. The associated method blank contains the target

analyte at a reportable level.

J

Estimated result. Result is less than the reporting limit.

Soil Water Air Protection Enterprise Dioxins/Furans, HRGC/HRMS (8290)

Client Sample ID: GINGER CRAVEY

Lot-Sample #: Date Sampled: Prep Date:	G6C060130 - 006 03/03/06 03/22/06 6085040	Work Order #: Date Received: Analysis Date: Dilution Factor:	H0N151AA 03/06/06 03/29/06		Matrix: Instrument: Units: % Moisture:	BIOLOGICAL 8D5 pg/g
Prep Batch #:	0083040	-	1	mer.	T	ro.

PARAMETER	<u>RESULT</u>		DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2 2 7 9 TCDD	ND		0.092	1.000	0
2,3,7,8-TCDD	ND		0.092		0
Total TCDD	ND		0.22	0.500	0
1,2,3,7,8-PeCDD	ND		0.22		0 .
Total PeCDD	ND		0.12	0.100	0
1,2,3,4,7,8-HxCDD	0.34	J	212-	0.100	0.0340
1,2,3,6,7,8-HxCDD	ND.	. 0	0.097	0.100	0
1,2,3,7,8,9-HxCDD	0.34		0.077		
Total HxCDD	1.5	J		0.010	0.0150
1,2,3,4,6,7,8-HpCDD	1.5	J			
Total HpCDD	1.5 5.4	В		0.001	0.0054
OCDD	ND	D	0.074	0.100	0
2,3,7,8-TCDF	ND ND		0.074	37.00	0
Total TCDF	ND ND		0.10	0.050	0
1,2,3,7,8-PeCDF	ND		0.10	0.500	0
2,3,4,7,8-PeCDF	ND		0.10	. 0.000	0
Total PeCDF	0.30	J	0.10	0.100	0.0300
1,2.3,4,7,8-HxCDF	0.35	J		0.100	0.0150
1 5,7,8-HxCDF	ND	J	0.085	0.100	0
2,3,4,6,7,8-HxCDF	ND ND		0.066	0.100	0
1,2,3,7,8,9-HxCDF			0.000	0.1.00	
Total HxCDF	0.45 0.71	JВ		0.010	0.0071
1,2,3,4,6,7,8-HpCDF	ND	JD	0.062	0.010	0
1,2,3,4,7,8,9-HpCDF			0.002	0.010	- -
Total HpCDF	0.87 0.75	JB		0.001	0.0008
OCDF	0.73	ų u			0.1073
Total TEQ Concentration					
		PERCENT		RECOVER LIMITS	ΥY
INTERNAL STANDARDS		RECOVERY			
13C-2,3,7,8-TCDD		62		40 - 135	
13C-1,2,3,7,8-PeCDD		73		40 - 135	
12C 1 2 2 6 7 9 IICDD		63		40 - 135	

INTERNAL STANDARDS	PERCENT RECOVERY	LIMITS		
13C-2,3,7,8-TCDD	62	40 - 135		
13C-1,2,3,7,8-PeCDD	73	40 - 135		
13C-1,2,3,6,7,8-HxCDD	63	40 - 135		
13C-1,2,3,4,6,7,8-HpCDD	56	40 - 135		
13C-OCDD	57	40 - 135		
13C-2,3,7,8-TCDF	56	40 - 135		
13C-1,2,3,7,8-PeCDF	67	40 - 135		
13C-1,2,3,4,7,8-HxCDF	52	40 - 135		
13C-1,2,3,4,6,7,8-HpCDF	59	40 - 135		

Notes:

В

J

Sac_Stnd_TEQ.RPT Rev. 0

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC; pr >5/2.89/016

Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

Case 2:06-cv-00084-LES-CSC Filed 04/24/2006 Document 21-13 Page 72 of 73

Soil Water Air Protection Enterprise Lipids, Percent (8290)

Client Sample ID: GINGER CRAVEY

Lot-Sample #...:

Prep Batch #...:

Date Sampled ...: 03/03/06 Prep Date:

03/22/06

G6C060130 - 006

6085042

Work Order #...: Date Received ..:

Analysis Date..:

Dilution Factor:

H0N151AC 03/06/06

04/03/06

Matrix....:

BIOLOGICAL

Instrument: Units....:

NA %

% Moisture:

PARAMETER

RESULT

DETECTION LIMIT

TEF **FACTOR** TEQ

CONCENTRATION

Percent Lipids

0.20

0.10

Total TEQ Concentration

TEF values are cited in U.S. Environmental Protection Agency, (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. U.S. Environmental Protection Agency, Risk Assessment forum, Washington, DC;

Dioxins/Furans, HRGC/HRMS (8290)

Sample ID: Client Sample ID: G6C060130-6 GINGER CRAVEY % Lipid:

0.20%

	Result		EDL (pg/g	TEF	TEQ
Analyte	(pg/g lipid)	Flag	lipid)	Factor	Concentration
2,3,7,8-TCDF	ND		37	0.1	
Total TCDF	ND		37		
2,3,7,8-TCDD	ND		46	1	
Total TCDD	. ND		46		
1,2,3,7,8-PeCDF	ND		51	0.05	
Total PeCDF	ND		51		
2,3,4,7,8-PeCDF	ND		50	0.5	
1,2,3,7,8-PeCDD	ND		110	0.5	
Total PeCDD	ND		110		
1,2,3,4,7,8-HxCDF	150	J		0.1	15
1,2,3,6,7,8-HxCDF	74	J		0.1	7.4
2,3,4,6,7,8-HxCDF	ND		42	0.1	
1,2,3,7,8,9-HxCDF	ND		33	0.1	
Total HxCDF	220				
1,2,3,4,7,8-HxCDD	ND		59	0.1	
1,2,3,6,7,8-HxCDD	170	J		0.1	17
1,2,3,7,8,9-HxCDD	ND		48	0.1	
Total HxCDD	170			-	
1,2,3,4,6,7,8-HpCDF	350	JΒ		0.01	3.5
1,2,3,4,7,8,9-HpCDF	ND		31	0.01	
Total HpCDF	430				
1,2,3,4,6,7,8-HpCDD	760	J		0.01	7.6
Total HpCDD	760				
OCDF	370	JB		0.001	0.37
OCDD	2700	В		0.001	2.7

Total TEQ Concentration

Method Blank contamination. The associated method blank contains the target

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analyte at a reportable level.

Estimated result. Result is less than the reporting limit.

В